目錄

1.	班機及集合時間	P.01
2.	緊急聯絡電話	P.02
3.	學生及領隊老師名冊	P.03
4.	住宿飯店一覽表	P.05
5.	分組、分房表及注意事項	P.06
6.	行前注意事項	P.08
7.	攜帶物品參	P.12
8.	旅遊行程詳細內容	P.13
9.	芝加哥科學營 IIT 課程表	P.15
10.	伊利諾理工大學學校地圖級學校簡介	P.16
11.	美國參訪地區地圖	P.19
12.	芝加哥簡介	P.20
13.	參訪地區景點介紹 (芝加哥,華盛頓特區,紐約)	P.26
14.	美東教育旅行學習單	P.43
16.	心得與寫真	P.78
17.	觀點摘要	P.94

班機與集合時間

λ 集合時間: 102 年 6 月 29 日(星期六) 下午 17:00 集合; 17:30 前出發

λ 請各位務必準時抵達

λ 活動網頁: http://www.mingdao.edu.tw/international/2013IIT/index.html

λ FB 粉絲團: http://www.facebook.com/ms.2013iit

λ 集合地點:明道中學明仁樓一樓穿堂

領隊老師 1:徐瑄儒 老師 聯絡電話: 0952-704590

領隊老師 2: 謝璿蓁 老師 聯絡電話: 0916-912566

芝加哥負責人: Dr. Lederman 聯絡電話: 002-1-708790-3027

λ 班機時刻 Δ 芝加哥比台灣慢13 小時

航班	起飛地	起飛日	起飛時	抵達地	抵達日	抵達時間
(去程)	起形地	起飛口	足形塔	拟连地	10 A U	加压从旧
BR026	台北	2013/06/29	23:00	西雅圖	2013/06/29	18:40
AA1866	西雅圖	2013/06/29	23:55	芝加哥	2013/06/30	05:36
AA2098	芝加哥	2013/07/15	15:45	波士頓	2013/07/15	19:15
航班 (回程)	起飛地	起飛日	起飛時	抵達地	抵達日	抵達時間
BR031	紐約	2013/07/19	01:45	台北	2013/07/20	05:15

緊急聯絡電話

地點 & 單位	聯 絡 人	當地電話
明道中學領隊老師	徐瑄儒老師	Tel: 0952-704590
明道中學領隊老師	謝璿蓁老師	Tel: 0916-912566
明道中學緊急聯絡電話	林雯琪副校長	0935-703507
为也十子东心协师 电阳	陳韋如 小姐	0910-567589
美國伊利諾理工學院	Dr. Lederman	Tel: 002-1-708790-3027

★特別叮嚀★

- 1.由台灣打電話到芝加哥,002+1(國碼)+區域碼+電話號碼 由芝加哥打電話回台灣,011+886+區域碼(去 0)+電話號碼/手機號碼 美國全國報警台電話為911,查號台為411
- 2.以上電話提供緊急使用,家長若要連絡同學請注意時差問題,以免打擾學生作息。
 (芝加哥比台灣慢 13 小時;波士頓,紐約比台灣慢 12 小時)
- 3.美國電壓是 120 伏特,大部分為二孔扁形的插座,與台灣相同。
- 4.需自行攜帶個人衛生及生理用品,如牙刷、牙膏、沐浴乳、洗髮精、吹風機、拖鞋、雨具、 輕便雨衣、面紙、及常用藥品,有特殊交代事項請務必告知帶隊老師。
- 5.七月屬美國夏季,平均溫度為23.7度,請穿著舒適及輕便的夏季服裝搭配防風及保暖薄外套,鞋子要輕便好穿且方便行走,另請準備帽子、墨鏡防曬,伸縮型雨傘以備不時之需。
- 6.請注意行李重量不得超過 20 公斤,手提行李也要在7公斤以下

學生及領隊老師名冊

序號	中文姓名	英文姓名	性別	生日	英文別名
1	夏宗緯	HSIA,TSUNG WEI	М	1999.10.27	Jonason
2	王冠育	WANG,KUAN YU	М	2000.09.04	Danny
3	曾柏翰	TSENG,PO HAN	М	2000.04.07	Abraham
4	周君翰	CHOU,JIUN HAN	М	2000.07.07	Stanley
5	蘇煥元	SU,HUAN YUAN	М	2001.09.17	Tommy
6	周鼎尉	CHOU,TING WEI	М	2000.07.30	Leo
7	張峰碩	CHANG,FENG SHUO	М	2000.05.23	Michael
8	陳奕霖	CHEN,YI LIN	М	2000.03.12	Brian
9	伍宏斌	WU,HUNG PIN	М	2000.02.28	Neil
10	蘇奕誠	SU,YI CHENG	М	2000.06.02	Steven
11	洪向均	HORNG, SHIANG JIUN	М	1999.05.25	Daniel
12	劉哲愷	LIU,CHE KAI	М	1999.09.14	James
13	張瀚丞	CHANG,HAN CHENG	М	1999.07.10	Oscar
14	蕭丞均	HSIAO,CHENG JIUN	М	2000.10.13	Jason
15	林煜舜	LIN,YU SHUN	М	1998.12.28	Sam
16	鍾事翰	CHUNG,SHIH HAN	М	2000.02.15	Hank
17	申芮嘉	SHEN,RUEI JIA	F	1999.11.04	Zoe

2013年明道中學芝加哥伊利諾理工大學科學營暨美東教育旅行

			Q 3 -Q -	4 0 14 1 2 3	17 子召旦大不仅月 101
18	許家绮	HSU,CHIA CHI	F	2000.02.03	Kristina
19	林暄穎	LIN,HSUAN YING	F	2000.02.23	Julia
20	吳詠涵	WU,YUNG HAN	F	2000.06.10	Hannah
21	李沛蓉	LEE,PEI JUNG	F	2000.03.04	Rubby
22	林彣蔚	LIN,WEN WEI	F	2000.03.04	Natasha
23	胡鈞淇	HU,AMBER	F	2000.02.17	Amber Hu
24	林珮宥	LIN,PEI YU	F	2000.05.15	Natalie
25	邱文卉	CHIOU,WEN HUI	F	2000.07.21	Maurene
26	江沛宇	CHIANG,PEI YU	F	2000.03.18	Jenny
27	謝璿蓁	HSIEH,RUEIJEN	F	1973.05.28	Sabrina
28	徐瑄儒	HSU,HSUAN JU	М	1979.11.30	Vincent
29	鄭可萱	ZENG,KE HSUAN	F	1981.10.23	Jessica

住宿飯店一覽表

日期	住宿旅館及聯絡電話	地址				
6/29(六)	搭機飛往 芝加哥 ,在飛機上過	夜。				
6/30 (日) 至 7/13(六)	IIT 伊利諾理工大學 自然數學科辦公室 Tel : 002-1-312 568 3661 Fax: 002-1-312 567 3659	3424 S. State Street Room 4007, South Bldg. Chicago, Illinois 60616-3793 (School address)				
7/14(日) 至 7/19(五)	長春藤名校 & 美東教育旅行 7/14(Sun)早上離開 IIT 校園,密西根湖大湖區一日遊 住宿飯店:RADISSON CHICAGO O'HARE HOTEL TEL: 847-296-8866 FAX: 847-296-2186 1450 EAST TOUHY AVE. DES PLAINES, IL 60018 7/15(Mon)上午西北大學校園參訪,下午芝加哥/波士頓 AA2098 ORD/BOS 1545/1915 住宿飯店: SHERATON COLONIAL BOSTON NORTH TEL: 781-245-9300 FAX: 781-246-4636 ONE AUDUBON ROAD WAKEFIELD, MA 01880 7/16 (Tue)上午長春藤名校~哈佛大學~MIT 麻省理工學院參觀~下午波士頓搭車前往紐約 7/17(Wen)紐約市區深度文化之旅(自由女神像、金牛銅雕、華爾街、證券交易中心、三一教堂、聯邦國家紀念堂) 住宿飯店:HILTON EAST BRUNSWICK TEL: 732-828-2000 FAX: 732-545-7239 3 TOWER CENTER BLVD EAST BRUNSWICK,NJ08816 7/18(Thu)紐約市區深度探索之旅(帝國大廈、洛克斐勒中心、時代廣場、中央公園、第五大道、大都會博物館) 飛機上過夜 7/19(Fri) BR031 JKF/TPE 0145/0515+1 紐約~今日搭機離開紐約返回台灣					
7/20(六)	飛機上過夜 班機於清晨抵達台灣後,專車接返明道中學	温暖的家				

學生分房/分組表

第一組	第一組 領隊老師:徐瑄儒 老師							
編號	姓名	性別	班級	房號				
1	夏宗緯	М	國一 9	0.4				
2	王冠育	М	GCP7	A1				
3	曾柏翰	М	國一 9	A 2				
4	周君翰	М	GCP7	A2				
5	蘇煥元	М	國一 9	D4				
6	周鼎尉	М	GCP7	B1				
7	張峰碩	М	國一 10	- B2				
8	陳奕霖	М	GCP7	DZ				
9	伍宏斌	М	國一 18	C1				
10	蘇奕誠	М	國一 18	CI				
11	洪向均	М	國二 2	C2				
12	劉哲愷	М	GCP7	02				
13	張瀚丞	М	國二7	D1				
14	蕭丞均	М	GCP7	D1				
15	林煜舜	М	國二 11	D2				
16	鍾事翰	М	GCP7	D2				
	徐瑄儒	М		T2				

第二組	第二組 領隊老師:謝璿蓁 老師								
編號	姓名	性別	班級	房號(旅行)					
1	申芮嘉	F	GCP7	F4					
2	許家綺	F	GCP7	E1					
3	林暄穎	F	GCP7	F2					
4	吳詠涵	F	GCP7	E2					
5	李沛蓉	F	GCP7	Г1					
6	林彣蔚	F	GCP7	F1					
7	林珮宥	F	GCP7	F2					
8	胡鈞淇	F	GCP7	Γ2					
9	邱文卉	F	國一 1	G					
10	江沛宇	F	國一5	G					
	謝璿蓁	F		T1					

行前注意事項

團體活動中準時是最重要的一件事,有時候一天要約定好幾次的集合時間,所以每一位學生自我要求準時是必要的,不僅可以有效率的完成我們所有的活動計畫,更重要的是展現出一個單位有沒有紀律的一項非常重要的指標。而我們這次出國不僅僅是代表個人,更是代表了學校,甚至是代表台灣出訪,所以言行舉止就要比平常要更為小心謹慎了。

一、機場集合、行李

芝加哥 IIT 科學營集合時間與地點為 6 月 29 下午 5 時整於明道中學,5:15 分準時出發。

- 01. 機票於機場集合時統一發給各位同學,當日請記得攜帶護照、簽證及相關旅行證件。
- 02. 依航空公司飛行規定,經濟艙每人以 20 公斤托運行李二件;商務客艙每人以 30 公斤托運行李二件;適當的隨身行李限一件,不得超過七公斤,超重的行李可能會被收取額外費用。貴重、易粹和醫藥物品,請置隨身行李保管。 美國運輸安全署對旅客行李之檢查通告:美國聯邦政府運輸安全署自 2003 年 01 月 01 日起,在全美各機場對旅客託運行李進行檢查,尤其針對由美國離境之旅客行李提出下列注意事項: a. 美國聯邦政府運輸安全署因行李檢查需要,會破壞行李箱上之鎖具,因此美國聯邦政府運輸安全署建議旅客不要將行李箱鎖上,以利安全檢查

及避免行李遭致破壞;<u>6月29日當天會統一發給同學專用行李牌與捆帶</u>。 b. 美國聯邦政府運輸安全署對行李之損壞或遭竊不負賠償之責任。故請勿將貴重物品放置於 託運行李中。若旅客有申訴事宜可逕行聯繫美國聯邦政府運輸安全署顧客服務專線

- 請其回覆,惟其係採個案方式辦理。免付費電話: (1-866)289-9673 意見申訴網址: Tel1TSA@tsa. dot. gov
- 03. 如有水果刀、鉛筆刀,或尖銳的物品,請放入托運行李中,勿攜帶上機。有氣爆之慮的噴霧容器,為飛安之故,請勿攜帶。**打火機絕對禁止隨身攜帶**。
- 04. 因應海關檢疫,請勿攜帶奶品、肉類、生鮮蔬果入出境,以免造成不必要的困擾。
- 05. 飛安新要求:
 - ●手提行李中不可攜帶乳狀及液態的物品,請放置大行李托運。
 - ●隨身攜帶之乳狀及液態的物品,如化粧品、香水、牙膏等,需全部放置於同一可開合之透明塑膠袋內,每樣不可超過100毫升(ml),且總容量不可超過1公升。
 - ●嬰兒食品及旅客搭機時須服用之藥物,不在限制之列,但請在受檢時主動告知。
 - ●於機場免稅店購買之乳狀或液態物品,需有証明或封簽,使可攜帶登機。
- 06. 攜帶外幣現鈔出入國境限額為一萬美元等值,超過者應向海關申報,未申報或申報不實者,超額部分將被處分沒入。
- 07. 請勿攜帶仿冒品入境,以免遭海關盤檢,嚴重者將可能遭受高額罰款。

二、搭機禮節

- 01. 搭機時團體的座位以航空公司的電腦自動安排。如無法與親友相鄰而坐,待登機就坐定位後再行更換,但請勿交換登機證!如機上有訂特別餐食者,請勿隨意更換座位,以期餐食能正確送達定位。
- 02. 用餐時,請豎直椅背,方便後座用餐。如前方的椅背未扶正,可請送餐的空服員代為轉達,請勿發生爭執。

- 03. 飛行途中請配合燈號繫好安全帶,為防止壞氣流或突發的危險,建議就座時請繫好安全帶。機上全面禁煙和禁止使用行動電話(請關畢電源),亦請勿在洗手間內吸煙, 以免觸犯律法。
- 04. 長途飛行可穿著較輕鬆的服裝和外套,並可攜帶一本好書閱讀,讓旅途更加充實。

三、氣候、衣著

01. 請於出發前再次參考媒體的氣象報告,或網址: http://www.weatherrisk.com/

芝加哥:

月份	一月	二月	三月	四月	五月	六月
` ਕ ਜੇਵ	-4 ∘ C	-2 ° C	4 ∘ C	11 ° C	16 ° C	22 ° C
温度	(-4~-1)	(-2 ~2)	(4~8)	(11 ~15)	(16 ~21)	(22 ~27)

月份	七月	八月	九月	十月	十一月	十二月
温度	24 ° C (24 ~ 29)	23 ° C (23 ~ 28)	19 ° C (19 ~ 24)	13 ° C	6 ° C (6 ~ 9)	-2 ° C (-2 ~2)

波士頓:

月份	一月	二月	三月	四月	五月	六月
四许	-2 ∘ C	0 ° C	3 ∘ C	9 ° C	14 ∘ C	20 ° C
温度	(-6 ~ 2)	(0 ~ 4)	(3~7)	(9 ~13)	(14 ~19)	(20 ~24)
月份	七月	八月	九月	十月	十一月	十二月
河床	23 ° C	23 ° C	18 ∘ C	12 ° C	7 ° C	2 ° C
温度	(23 ~28)	(23 ~27)	(18 ~22)	(12 ~16)	(7~11)	(2 ~5)

紐約:

月份	一月	二月	三月	四月	五月	六月
温度	1 ° C	2 ° C	6 ° C	12 ° C	17 ∘ C	22 ° C
/皿/又	(1 ~3)	(2^{6})	(6 ~10)	(12 ~16)	(17 ~22)	(22 ~26)
月份	七月	八月	九月	十月	十一月	十二月
四中	25 ∘ C	24 ° C	20 ° C	14 ° C	9 ° C	3 ∘ C
温度	(25 ~29)	(24 ~28)	(20 ~24)	(14 ~18)	(9 ~12)	(3~6)

- 02. 天氣變化無常,請以**夏季衣著為主搭配防風及保暖薄外套,**並請攜帶雨具,以防不時之需。
- 03. 旅遊行程中請以輕便舒適整齊為原則。外出時,請勿穿著拖鞋,以維護基本禮節。
- 04. 因氣候乾燥,可攜帶潤膚乳液和護唇膏備用。

四、餐食安排

- 01. 三餐皆安排在 IIT 學生餐廳,外食則以課程安排搭配之餐廳為主,請參考每日課程表。
- 02. 當地自來水是可生飲,但仍建議飲用礦泉水,以免產生水土不服之情況,而影響旅遊心情。**有些餐廳飲用水視為飲料,需另外付費**。
- 03. 餐廳內請勿喧嘩嬉戲,亦不宜自備飲品或泡麵在餐廳食用,以示尊重。

04. 用餐就坐時,請將椅子拉近靠背,方便鄰座進出。在外用餐時,切記勿將皮包掛在椅背上,以防失竊。

五、學生宿舍

- 01. 進入宿舍分配好房間後,請先熟悉環境、緊急逃生路線,並檢查房間各項設備,例如: 床單、毛毯、大小毛巾等等是否有短缺或故障,如有任何問題請與領隊老師連絡。
- 02. 美洲地區氣候因夏短冬長,暖氣設施是必備的,但不一定會有冷氣空調設備,敬請見諒。
- 03. 沖浴時,請將浴簾拉起置於浴缸內側,以保持地面乾燥。
- 04. 如廁後,請將衛生紙丢入馬桶內沖水處理。其餘物品,請勿丢入馬桶內。
- 05. 美國電壓是 120 伏特,大部分為二孔扁形的插座,與台灣相同,其他插座類型包下列:

4 11

- 06. 住宿期間,請妥善保管自已貴重物品。
- 07. 建議可攜帶衣架。

六、巴士

- 01. 因團體行動,請注意集合時間、地點,敬請提早抵達集合地點。
- 02. 自由活動、上廁所,或晚間外出,請勿單獨一人,建議結伴而行,小心安全。
- 03. 到旅遊景點時,請勿急著照相,先聽取帶隊老師介紹和注意事項後,再自行活動。
- 04. 巴士內請勿飲食;亦請自行清理座前垃圾,維護車內清潔。
- 05. 旅遊途中,請特別注意自身與財物的安全。如有不明白或建議的地方,請與帶隊老師洽詢協商,共創一趟美好的旅遊。

七、旅遊需知

- 01. 時差:芝加哥比台灣慢 13 小時:波士頓, 紐約比台灣慢 12 小時。
- 02. 國際電話:

台灣→芝加哥:002+1+區域號碼+電話號碼

美洲→台灣: 011+886+區域號碼(去 0)+電話號碼/手機號碼

手機:建議使用簡訊

手提電腦:建議開立 Skype 帳號

- ※台灣行動電話須為三頻機方可在美洲地區使用,且因電信公司制度不同限制,請事先洽詢通話漫遊事宜。或是在台灣先購買國際電話卡,亦可在美洲當地購買電話卡使用。
- 03. 國外藥品購買不易,請自備足夠的用量。每日必服的藥品請放在隨身行李,以便服用。 可準備一些感冒藥和腸胃藥,以便水土不服之需。
- 04. 學校已請旅行社按規定投保基本的旅遊保險,您亦可自行加購旅遊平安險。

八、貨幣、購物

01. 美國流通貨幣為美金。

根據 2013/06/11 中央銀行外幣匯兑表:

1 美元 = 29.926 台幣, **結匯前您亦可上網查詢更明確的匯率資訊**;信用卡在當地普遍流通,但小商店和攤販仍以現金交易為官。

九、旅遊保險

旅行平安險是針對出國旅行途中可能發生的各種意外(除疾病、外科手術、自殺、戰事變亂、職業性運動競賽與故意行為外)所導致的一切意外死傷事故所做的保障,一般皆可獲 得保險公司的理賠。根據84年7月1日實施的新版旅行業管理規則,旅行業必須投保責任保險和履約保險才能出團;本團已包含同學每人200萬元旅行平安保險及20萬醫療險,教師每人500萬元旅行平安險及25萬醫療險。

十、心情準備

出國旅遊是暫時離開自己熟悉的生活環境,來到一個全然新鮮陌生的地方,讓自己在輕鬆度假的心情下,學習新知、增長見聞。但團體的生活、天氣的變化、飲食的文化、突發的事故,常常會左右我們的旅遊心情。如能帶著寬闊的胸襟和幽默的眼光,來欣賞旅途中所發生的種種事情,必能讓您體驗到意想不到的旅遊情,做個快樂的旅行家。

攜帶物品參考表

內 容	備註
□ 旅行支票	因人而異
□ 隨身背包	建議使用側背包
□ 文具用品	筆記本、筆、字典、計算機、橡皮擦
□ 個人名片	可以自行設計,以便留給新朋友
□ 二吋照片(3 張)	有備無患
	上衣、棉質 T 恤、長短褲、裙子、睡衣褲、
□ 一星期衣物	薄外套,因美國當地為夏天,易出汗者可多
	準備二、三件更換
□ 盥洗用品	牙刷、牙膏、小毛巾、洗髮精、沐浴乳皆需
□ 伊美田口	自己準備!
□ 保養用品 □ 白供藥口(咸貝藥、特殊用藥、OV 端、	護唇膏、乳液、防曬乳
□ 自備藥品(感冒藥、特殊用藥、OK 繃、□ □ □ 3、 4 □ △ 、 乾 3 = 下流)	有習慣用藥者請事先告知老師,並備妥英文
口罩、維它命、乾洗手液)	處方簽,常用藥請隨身攜帶,勿放大皮箱
零食	餅乾、泡麵、杯湯等 一、以 b 時 5 円
□ 塑膠袋	可以裝髒衣服
□ 近視眼鏡、隱形眼鏡	近視眼鏡,最好有二副或者攜帶備用隱形眼 鏡;隱形眼鏡,請攜帶藥水、清潔液
□ 3C 用品	翻譯機、照相機、記憶卡、電池、充電器
□ 手機	北美三頻手機-因人而異
□ 國際預付卡(NT:300-500 元)	可至便利商店購買
□ 水壺	
	拖鞋、涼鞋、運動鞋、皮鞋、襪子、面紙、
□ 其他物品	手帕、洗臉小毛巾、雨傘、遮陽帽、太陽眼
	鏡
□ 親友聯絡地址電話	

行程內容

天數	日期	行程內容	住宿	
1	6/29 (Sat)	今日搭機飛往芝加哥,隔天抵達後伊利諾理工大學報到 BR 026 TPE/SEA 2300/1840 AA 1866 SEA /ORD 2355/0545+1	飛機上	
2~5	6/30 ~ 7 /3	伊利諾理工大學科學探索營活動	ШТ	
6	7 /4 (Thu)	慶祝美國國慶日IIT 停課,上午芝加哥市區觀光 下午參觀美國職棒美聯芝加哥白襪隊比賽	IIT	
7	7/5 (Fri)	8:00~12:30 芝加哥大學導覽參觀 下午芝加哥市區觀光,傍晚返回 IIT	ШТ	
8~15	7/6 ~ 7/13	伊利諾理工大學科學探索營活動	IIT	
16	7/14(Sun)	早上離開IIT 校園 密西根湖大湖區一日遊	RADISSON CHICAGO O'HARE HOTEL	
17	7/15(Mon)	上午西北大學校園參訪 下午芝加哥/波士頓 AA 2098 ORD/BOS 1545/1915	SHERATON COLONIAL BOSTON NORTH	
18	7/16(Tue)	上午長春藤名校~哈佛大學~M IT 麻省理工學院參觀 下午波士頓搭車前往紐約	HILTON EAST	
19	7/17(Wen)	紐約市區深度文化之旅: (自由女神像、金牛銅雕、華爾街、證券交易中心、三一教堂、聯邦國家紀念堂)	BRUNSWICK	
20	7/18(Thu)	紐約市區深度探索之旅: (帝國大廈、洛克斐勒中心、時代 廣場、中央公園、第五大道、大都會博物館)	飛機上	

2013年明道中學芝加哥伊利諾理工大學科學營暨美東教育旅行

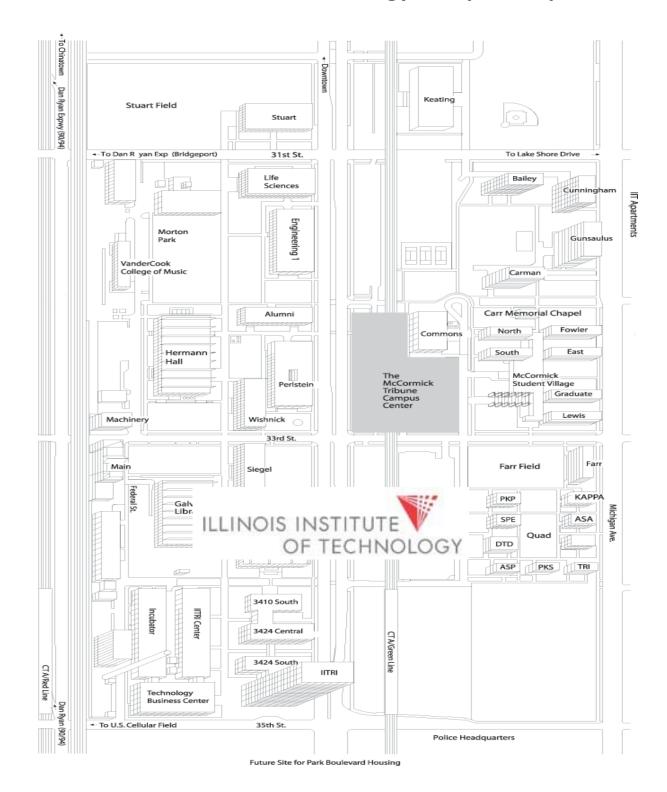
21	7/19(Fri)	紐約~今日搭機離開紐約返回台灣 BRO31 JFK /TPE 0145/0515+1	飛機上
22	7/20(Sat)	班機於清晨抵達台灣後,專車接返明道中學	溫暖的家

^{1.} 配合航空公司和參訪學校的行程,本活動或許會有順序變更,唯行程表所列相關內容不變

伊利諾科學營課程表

Sun	Mon	Tue	Wed	Thu	Fri	Sat
June 30	1 Breakfast 7:30am	2 Breakfast 7:30am	3 Breakfast 7:30am	4 Breakfast 7:30am	5 Breakfast 7:30am	6 Brunch
Mingdao School Arrives 5:30am O'Hare Airport Dormitory Check-In Brunch Dinner 5pm	8:30am –Noon Nature of Science Scientific Inquiry Graphing Calc's Lunch Biodiversit Y Technology IPAD's Dinner 5pm	8:30am –Noon Dissections Sharks Lunch Worms Dinner 5pm	Leave 8:30am Shedd Aquarium Lunch at Shedd Return to campus 4:00pm Dinner 5pm	Lunch 11am Chicago White Sox Baseball Game 12:00 noon Dinner 5pm	University of Chicago ? 8:00am-1:00 pm Lunch Free Time Dinner 5pm	11:30am Leave campus Millenium Park Willis Tower Sky deck Dinner 5pm
7 Brunch 11:30am Leave campus Planetariu m Field Museum Dinner 5pm	8 8:30am –Noon Hearts,Pigs/Frogs GH MC Lunch 1:30 –5:00pm Sheep Eyes Chicken Dinner 5pm	9 8:30am –Noon Digestion Lunch 1:30 –5:00pm Respiratory System Nervous System Brains Dinner 5pm	8:30am –Noon Chemical Reactions Probes Lunch 1:30 –5:00pm Titration Dinner 5pm	8:30am –Noon Rockets/Ro ckits Lunch 1:30 –5:00pm Forces & Motion Physics Dinner 5pm	8:30am –Noon Env. Chemistry Lunch 1:30 –5:00pm Nature of Science Scientific Inquiry Banquet 6pm	13 11:30am Leave campus Brookfield Zoo OR Museum of Science & Industry Dinner 5pm Dinner 5pm
14 Mingdao School Departs 6am Dorm Check Out O'Hare Airport	Soccer July 1 Games on campus July 8	Volleyball July 2 Games on campus July 9	Games on campus July 3 Navy Pier July 10	Free Evening July 4 Bowling Party July 11 6:00pm-9:0 Opm	Free Evening July 5 Train to Chinatown 5pm Banquet Phoenix Restaurant July 12 6:00-9:00pm	Depart Tomorrow Free Evening July 13

Illinois Institute of Technology Campus Map



伊利諾理工大學

學校網址 http://www.iit.edu/

簡稱 IIT,是全美國排名前 100 名的學校,該培訓項目不僅在美國而且在世界上也是名列前茅。IIT 是位於美國第三大城市芝加哥最有名的私立大學之一(這是他們的優勢之一,私立大學在美國和中國的情況正好不同,比公立學校更有地位和權威性)。與眾多世界知名的國際大企業大公司有長期緊密的合作與交流項目。伊利諾伊斯理工大學是一所具有博士授予權的美國頂尖的私立大學,綜合全美排名多年來高居美國最好大學的前 100 名,眾多專業排名更是排名前 50 位!它建立於 1890 年,後於 1940 年與路易士大學合併,始稱伊利諾理工學院。面積達 120 英畝的主校區位於芝加哥市中心以南 3 英里處,市中心校區位於芝加哥的 CBD 內,莫非特校區和萊斯校區位於芝加哥郊區。學生人數,本科 1544,研究所 3601,法學院研究生 1054。學校男女比例 76:24,51%的學生為外洲學生,9%的學生為國際學生,40%的學生在中學裏成績排在前 10%,50%的學生的 SAT 成績在 1205 至 1360 間。學校提供工程,科學,建築,設計,以及心理學,公共管理,通信技術,商業,以及法學等綜合學科。伊利諾伊斯理工大學也是獨立技術大學聯盟享有崇高聲望的成員之一(獨立技術大學聯盟包括 MIT 麻省理工大學,密西根理工大學,佛吉尼亞理工大學,加州理工大學等眾多世界頂尖知名大學)。

學校五大特點

◎在商業研究和學術領域具有享譽世界的聲望

伊利諾理工學院的學位是極具聲望的,伊利諾理工學院的畢業生對世界產生巨大的影響,比如磁介質錄音的發明和發(Marvin Carn),應用於蜂窩通信的無線技術(Marty Copper),Pop Tarts。臭氧層空洞的確認(Susan Solomon),以及最初為 NASA 設計的 John Madden,電子於寫板(Leonard Rerffel)。伊利諾理工學院的建築師設計了許多世界著名的建築,其中包括 John Hancock 中心,芝加哥 0' Hare機場聯合航空公司候機室,Lake Point 大廈,新 Solder Hold 球場,以及二十世紀兩百個最重要的建築成就之一,伊利諾理工學院校園內的 SR Crown 教學樓。

◎畢業生就業率

過去的六年中,伊利諾理工學院的畢業生獲得了百分之九十二的就業率(畢業後六個月之內找到工作或得到研究生院的錄取)。伊利諾理工學院畢業生的起點工資普遍高於全國的平均水平,在世界上只有少數的大學能做到這一點,這些都得益於伊利諾理工學院的跨學科實踐項目,在這個項目中學生會利用兩個學期的時間為校外的企業或機構解決實際的課題,學生可以從實際工作中培養專案管理和解決問題的能力。伊利諾理工學院的校外實習專案給學生提供了非常好的工作經驗,開闊了眼界,大多數申請校外實習的學生都能實現他們的願望。

◎大量的獎學金機會

伊利諾理工學院是一所私立大學,擁有大量的獎學金和助學金,能確保學生得到一個可負擔得起且極 具聲望的私立學校教育和學位。

◎小班授課和個別輔導

伊利諾理工學院的小班授課意味著學生可以得到更多的關注和個別輔導,這些只有其他少數同等級的大學可以做到。在伊利諾理工學院,大多數班級少於四十人,其中百分之二十六的班級少於十人。伊

利諾理工學院的學生通常能參加本科生研究工作。當教授發表他們的學術論文時,學生的名字經常被包括在其中以肯定他們的貢獻。百分之十八的教授擁有博士或終極學位。他們講授初級和高級課程,而其他大多數大學通常由助教講授初級課程。

◎獨特的地理環境

伊利諾理工學院位於芝加哥的中心地帶,距市中心僅十分鐘路程,學生能體驗這個世界上極具文化色彩的城市,並能夠與無數的跨國公司和機構建立聯繫。統計顯示伊利諾理工學院是中西部大學中最安全的校園之一。

學校概述

學校類型:私立,擁有博士授權資格,男女同校,具備中北部大學聯合會的認證。

教師情況:

學生教師比例 12:1

339 名全職教師, 196 名兼職教師, 均是來自工業界的專業人士 98%全職教師擁有博士或終極學位

專業方向:

航太航空工程/應用數學/建築學/建築工程/生物醫學工程/生物學/工商管理/化學/化學工程/土木工程/電腦工程/電腦資訊系統/電機工程/人文學/互聯網通信/機械工程/冶金和材料工程/分子生物化學和生物物理學/物理學/政治科學/專業和技術傳播學/心理學

體育運動隊:

伊利諾理工學院是全國校際運動聯盟(NAIA)的成員。擁有男子運動隊/女子運動隊(棒球/籃球/越野/足球/游泳)。

Vander Cook 音樂學院:

坐落於伊利諾理工學院的校園,伊利諾理工學院的學生可以在該校選修非表演類的課程,這些課程可以作為他們必修課程的一部分。

資助:

伊利諾理工學院資助專案包括贈款、獎學金、貸款和半公半讀計畫,大約90%的伊利諾理工學院有各種各樣的獎學金機會,其中包括4年或5年全額獎學金。

畢業生:

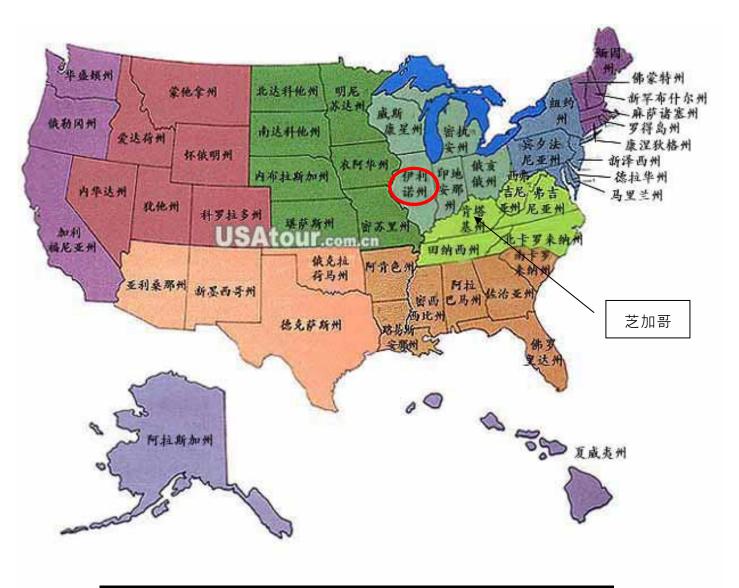
在過去的六年中:92%的伊利諾理工學院的畢業生在畢業後六個月之內找到了工作。大約有 100 家公司每年會在校園內舉行 1500 人次面試,伊利諾理工學院的畢業生起點工資普遍高於全國的平均水平。在最近一次校友調查中,94%的校友對他們在伊利諾理工學院得到的教育表示滿意。







參訪地區地圖



地名	州	
芝加哥 Chicago	伊利諾州ILLINOIS	

芝加哥簡介

☆ 市 名:芝加哥市(City of Chicago),又稱「風城」。

☆ 別名由來:

一種說法認為:windy 暗示「芝加哥人的浮誇之氣」。1893 年,紐約和芝加哥同時競選申辦世界博覽會,申辦過程中,紐約人認為芝加哥過於誇大言辭,於是,《紐約太陽報》主編 Charles A. Dana (查理斯· A· 達納)寫了一篇報導,抨擊紐約人的 windy (空話、吹牛)特性。但是,正統辭源學否認了這種說法。據辭源記載,早在 1886 年,Windy City(芝加哥)的說法就已被媒體接受,而且,當時所言的 windy 絕無貶抑之意,而是特指芝加哥的宜人氣候。每到夏季,湖區涼風陣陣,芝加哥成為美國人的避暑好去處,Windy City(風城)由此得名。

☆市 旗:



芝加哥市市旗由三條白色被兩條藍色分隔而組成,在中間那條白色上有四顆紅星。兩條藍色象徵芝加哥河及其兩條支流。中間那條白色表示該市的西部,而外邊、較窄的兩條白色表示北部和南部。中間那條白色上的四顆紅色六角星(自旗杆向外)分別意為:迪爾伯恩要塞(1939 年添加)、1871 年 10 月 8—10 日的芝加哥大火、1893 年的「世界美國展覽會」和 1933 年的「進步的世紀展覽會」(1933 年添加)。

☆市 徽:

芝加哥市市徽的正面直徑二又八分之三英寸,畫面上描繪的是一塊紅色的盾牌(美國)、銀白色和青色,在盾的中心點有一捆金色的麥子,在盾形徽章右側本色(作為右半部扶持盾牌的物形)是一艘張著滿帆的船,頂部是一個銀白色的殼狀物,內有一名本色的嬰兒,徽章盾形左側(作為左半部扶持盾牌的人形),是一位手持本色弓箭的印第安人酋長站在綠色的懸崖上,盾牌的下部是紅色飄拂的飾帶,上有金色的銘文「Urbs in Horto」(花園城



市)。環繞該市徽外沿的青色圈中有金色的刻印文字「芝加哥市:1837年3月4日併入」。 描繪上述 內容並被用成彩色或黑白的徽章被確定和宣佈為過去式,現在仍是該市的市徽。一般使用時,含有以 上所給圖案的單色白色畫面即可。

☆ 市 花:菊花

☆ 獨立時間: 西元 1837 年 3 月 4 日

☆ 地理位置:

北緯 41 度 53 分 0 秒, 西經 87 度 39 分 0 秒; 位於美國中西部, 伊利諾州的東北角, 瀕臨密西根湖的西南端, 芝加哥位於密西西比河水系和五大湖水系的分界線上。

☆ 面 積:

606. 1 平方公里, 其中 588. 3 km² 為陸地, 17. 8 km² 為水面。水面大約占總面積的 2. 94%。

☆ 體 育:

- (1)賽馬:梅伍德公園賽馬場(Maywood Park Race Track)、運動員公園賽馬場(Sportsmans Park Race Track)
- (2)美式足球:芝加哥熊隊-戰士體育場(NFL)
- (3)足球:芝加哥火隊-豐田足球場(MLS)
- (4) 籃球:芝加哥公牛隊一聯合中心(NBA)、WNBA
- (5)棒球:芝加哥白襪隊-白襪棒球場(MLB)、芝加哥小熊隊-里格利棒球場(MLB)
- (6)冰上曲棍球:芝加哥黑鷹隊-聯合中心(NHL)

☆ 民 族:

芝加哥是一個多種族的城市,早期移民有愛爾蘭人、瑞典人、波蘭人、義大利人、德國人和華人等。

☆ 人 口:

280 萬(2007 年), 其中:黑人占 38. 6%, 白人占 37. 9%, 說西班牙語的人占 19. 6%, 亞裔占 3. 5%。 大芝加哥地區華人總數約 6 萬人。

☆ 經 濟:

芝加哥是美國中西部一個重要的金融中心,也是世界金融中心之一。「芝加哥證券交易所」是美國境內僅次於紐約市的最大證券交易所。「芝加哥商業交易所」、「芝加哥期貨交易所」和「芝加哥交易局」舉世聞名。「芝加哥商業交易所」世界上最大的一個易損貨物交易市場,在全世界金融交易場所中首屈一指。「芝加哥期貨交易所」的成交額超過美國國內任何一個交易所。「芝加哥交易局」是世界上最大、最早的期貨、期權交易市場,它的股票成交額在美國國內名列前茅。芝加哥是美國一些大銀行和大金融機構的總部和分支機構所在地。它擁有300多家美國銀行、40家外國銀行分行和16家保險公司。這些銀行和金融機構在商業貸款數額上名列美國全國前3名,各種金融資產總額居美國聯邦儲備委員會管區的第三位。世界《財富》500強企業中有33家、美國《福布斯》500強企業中有47家在此落戶。

☆ 歴 史:

芝加哥是**印地安語**,意謂討厭的**野生洋蔥**。1907年的芝加哥州街(State Street)是第一個定居者 到此地開發探險。18世紀時,芝加哥地區是伯塔瓦托米(Potawatomi)印第安部落的領地。1779年, 一個來自海地的黑人商人—杜薩布林(Jean Baptiste Point DuSable)定居芝加哥,他娶伯塔瓦托 米人為妻,並在芝加哥北岸開設了這一地區第一家貨棧。1803年,美國陸軍在此建立了迪爾伯恩 要塞,後在 1812年的迪爾伯恩要塞屠殺中被毀。1833年8月12日,芝加哥鎮成立,當時擁有 350 名居民。隨著定居人口的增加,1837年3月4日這裡成為芝加哥市,而此時的人口僅有 4170人。 在它歷史的第一個百年中,芝加哥是當時世界上人口增長最快的城市之一,從 19世紀初的空白起 點增長到 1900年已超過一百萬。在 19世紀成為美國中西部地區的主要城市和農產品集散地。1848 年,溝通密西根湖和密西西比河的伊利諾伊-密西根運河建成,溝通了兩大水道之間的航運。同年, 芝加哥的第一條鐵路開始修建。自此,芝加哥開始成為連接美國東西部的重要交通樞紐。1870年到 1900年間,芝加哥的人口從 29.9萬猛增到 170萬。當地的製造業和零售業成為中西部經濟的主宰力量,在很大程度上影響了美國的經濟。

1886年5月1日芝加哥幾十萬工人舉行罷工,爭取八小時工作日,取得了巨大勝利,五一國際勞動節即起源於此。1871年10月8日至10日芝加哥市發生火災,約6.5平方公里土地上的市區(包括商業區)建築物幾乎全部被燒光,約300人死亡、9萬人無家可歸,財物損失達2億美元。這就是美國歷史上著名的芝加哥大火。在大火之後,芝加哥得到快速的重建並很快恢復了增長。在重建期間,這裡產生了世界上第一棟採用鋼構架的摩天大樓,以此開始了芝加哥不斷創新的城市建築在世界範圍的聲譽。1893年,芝加哥主辦了世界哥倫布博覽會,獲得極大的成功,共吸引到2750萬遊客前來參觀。1933年世博會是第一屆有明確主題的世博會(即進步的世紀展覽會),這樣的身份常使其成為世人眼中世博歷史的另一種開端。「一個世紀的進步」作為官方正式名稱,在1929年被確定下來,但早在構想階段,以芝加哥在百年世紀中的科學進步與工業發展為主題的說法就已風靡一時。

由於人口的快速增長和工商業的發展,作為城市主要水源的密西根湖的邊緣地帶在此期間被嚴重污染。為解決飲水污染問題,政府在密西根湖裡兩英里處建設了自來水廠的入水口,並通過水下管道將水引入城市的供水系統。1900年,這一問題終於得到徹底的解決。人們通過建設水位提升設施和閘門,將原本流入密西根湖的芝加哥河的流向倒轉,使其轉而向南流入伊利諾河。從此,城市的污水不再注入密西根湖。

1999年6月,芝加哥政府為了吸引觀光客,在市區放置了300只彩繪牛,並且請來藝術家在上面作畫。這些牛都是玻璃纖維做的,體積和真的牛一般,每隻牛還有創作者的大名在上面。這群光鮮亮麗的「動物」不但受到當地人的喜愛,還為芝加哥帶來上億的觀光收入,也讓此地成了名符其實的牛城。這些牛還將進行拍賣,並把款項作為慈善之用。

有人稱芝加哥為「美國的超級市場(The Super Market of America)」。無論從那一個角度看來,它都是一個典型的美國式都市,既是商業中心,又是交通要塞,市內到處是在建築史上占一席地位的奇麗建築物。可眺望密西根湖的公園,蜿蜒的水際線,另有一番美妙景色。還有,無論是國際性會議,或美國國內較大規模的會議,大都在這一都市舉行,因這又獲得「議壇之城」的別稱。1886 年 5 月 1 日,芝加哥的幾十萬工人為爭取八小時工作制舉行罷工示威遊行,「五‧一」國際勞動節(1886)和「三‧八」國際勞動婦女節(1909),都源於這座具有工人運動光榮傳統的城市。1955 年,後來擔任芝加哥市長 21 年的理查‧J‧戴利首次當選市長。現任市長理查‧M‧戴利,是原老市長理查‧J‧戴利的兒子,政策注重提升芝加哥的環境質量,實施了一些復興衰落街區,改善城市基礎設施和沿河城市景觀的項目。目前芝加哥正在準備申辦 2016 年的奧運會。

芝加哥景點介紹

★布魯克菲爾德動物園(Brookfield Zoo)

其正式名稱為芝加哥動物園(Chicago Zoological Park)。建於1934年,以其大規模的開放式場地出名。園址位於伊利諾州芝加哥西南郊的布魯克菲爾德,占地83公頃(204畝)。園內有義大利式鄉間建築和整齊的林蔭道。這座內陸公園展出的海豚和其兒童動物園特別受人歡迎。1937-1953年間展出的三隻大熊貓亦很有名。它是全美國第一個展出大熊貓的動物園,其中一隻名叫蘇林(音譯)的熊貓在死亡後被製成標本,如今被放在芝加哥菲爾德自然歷



史博物館(Chicago's Field Museum of Natural History)中展示。動物園在飼養多爾羊(Dall sheep) 和加坡(okapi)方面成果突出,還收有蹄類動物、袋鼠以及狒狒和其他非洲靈長類動物。1960年,動物園建成了美國第一個全室內海豚展室;20世紀80年代建設了熱帶世界(Tropic World)—第一個全室內雨林模擬場景展室;隨後又建設了世界最大的室內動物園展室。

★菲爾德自然歷史博物館 (Field Museum of Natural History)



菲爾德自然歷史博物館的收藏品有2千萬件,其中包括木乃伊、美國土著藝術品、經過填充的動物及恐龍標本等等。博物館的陳列把遊客從一座擁擠的城市帶到廣闊的撒哈拉大沙漠的沙丘。有一座類比實物的古埃及多層墓葬,其中有23具木乃伊;恐龍廳展出巨型的恐龍骨架,有的據測算已達千百萬年之久。1997年,菲爾德博物館獲得最具影響的收藏品,獲得了一具暴龍的骨架(Tyrannosaurus rex),名字是蘇,是幾年前一位農場主發現的,這是迄今止發現而保存最完好的食肉猛獸的骨架。

★格蘭特公園(Grant Park)

位於市中心東南,密西根湖旁。芝加哥主要公園之一,園內有世界最大的照明噴泉-白金漢噴泉,中央泉池占地 600 平方英尺,夜晚有萬盞燈火照射,瑰麗壯觀,公園北為芝加哥美術館,南有自然歷史博物館,水族館,天文館和露天音樂堂。主要是由私人捐獻的白金漢先生的妹妹為主要出資人,為紀念哥哥白金漢而命名,這對兄妹熱愛藝術,一心期望芝加哥能趕上歐洲的公共藝術水準於是促成這座巨大噴泉的誕生。





★阿德勒天文館(Adler Planetarium)

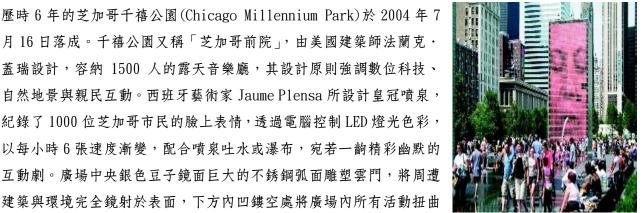
建於 1930 年的美國第一座天文館芝加哥阿德勒天文館和天文博物館,於 1998 年年初投資 4000 萬美元進行改建,新館已於 1999 年 10 月開幕。該 館新建了一個 20 米直徑、傾斜 15 度的 StarRider 星空騎士劇場。劇場中安裝了電子天象儀和電腦作圖的三維全天域視頻投影設備,設置了 193 個

新座椅,在座椅的扶手上裝有控制按鈕,可以使觀眾互動式地參與即時的節目表演。電腦計算出觀眾 的平均選擇,然後給 6 個投影器發出信號。運用高超的圖像生成和仿真技術,StarRider 劇場給阿德 勒的觀眾帶來在生動的、全彩色的、電腦生成的三維圖像中,穿越時空、探索宇宙的感受。它是沒有 火箭的空間旅行,使用了美國益世公司為訓練宇航員和飛行員開發的即時模擬技術。利用 StarRider, 觀眾沉浸在虛擬的現實世界裡,無法用言語來描述在劇場裡進行太空旅行的感受。

坐落繁忙的密西根大道(Michigan Avenue)上,占地 24 英畝,長達一英里,耗資 4 億 7 千 5 百萬美元,

★千禧公園 (Millennium Park)

歷時 6 年的芝加哥千禧公園(Chicago Millennium Park)於 2004 年 7 月 16 日落成。千禧公園又稱「芝加哥前院」, 由美國建築師法蘭克· 蓋瑞設計,容納 1500 人的露天音樂廳,其設計原則強調數位科技、 自然地景與親民互動。西班牙藝術家 Jaume Plensa 所設計皇冠噴泉, 紀錄了 1000 位芝加哥市民的臉上表情,透過電腦控制 LED 燈光色彩, 以每小時 6 張速度漸變,配合噴泉吐水或瀑布,宛若一齣精彩幽默的 互動劇。廣場中央銀色豆子鏡面巨大的不銹鋼弧面雕塑雲門,將周遭



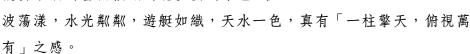
★希爾斯大廈 (Sears Tower)

芝加哥市內摩天大樓林立,有小華爾街之稱。希爾斯大廈坐落在美 國芝加哥市的密西根湖濱,是美國最高的摩天大樓。頂層上兩根巨 型天線直刺青天,深褐色的鋁制外壁和青銅色的玻璃窗戶在陽光下 璀璨閃爍。在第 103 層上設有瞭望台,乘坐特快電梯不到一分鐘就

變形於鏡射之中,宛如都市尺度的水晶球,極具超寫實效果。



可到達。在瞭望臺上可俯視芝加哥市全, 觀賞浩瀚的密西根湖旖旎多姿的景色;碧



★雪德水族館 (Shedd Aquarium)

這是世界上最大的分類水族館,大理石池分別有鰭、有腮、兩棲和其他多 種海洋生物游來游去。水族館建於 1929 年,位於密西根湖畔,於西元 1930 年開館,最初有 2 百個水池。當時主要任務是提昇社會大眾對水中世界的

了解及認識,如今,主要的教育目標則是妥善保護稀有或瀕臨絕種的水生生物。後來增加的海洋水族 館呈多層結構,有落地玻璃,巨型的水棲哺乳動物似乎與玻璃外的湖水融一體。中央水箱中有5百多 種漂亮的熱帶海洋動物,有平靜的護士鯊,以及不太友善的海鰻等。此外還有白鯨、太平洋帶白色花



紋的海豚、海豹、海生水獺以及企鵝等。

★海軍碼頭 (Navy Pier)

芝加哥的海軍碼頭(Navy Pier)是另一個商業,休閒,遊樂的「熱點」地區,比鄰市區,三千多英尺 長的碼頭,直伸進浩瀚的密西根湖(Lake Michgan)。若有機會乘坐遊 艇,在湖面上回望碼頭,可見芝加哥的現代森林在其背後摩天而立, 壯觀之極。自 1916 年建造後,一直是芝加哥的地標。曾經是第二次世 界大戰用來訓練海軍及集會廣場,也曾是伊利諾大學最初的臨時校 地,如今則是芝加哥最流行的娛樂廣場。內有芝加哥著名的兒童博物 館(Chicago Children's Museum)、餐廳及浪漫露天咖啡廳。晚上時可 登上摩天輪,欣賞湖上風光。





★科學與工業博物館 (Museum of Science and Industry)

美國芝加哥科學工業博物館是一個綜合性的科普場所,展示內容 非常豐富,從基礎科學知識到前沿科學知識,能滿足從兒童到成 人的各種學習需要。博物館共有三層,每層有四個樓梯,以紅、 黄、藍、綠四種顏色區分,非常醒目,為觀眾提供了便利的參觀 條件。展覽內容涉及很多領域,展區按知識點劃分。內容包括: 腦、細胞、化學、廢品利用、基礎科學、愛滋病、飛行、心臟、

煤礦、交通、基因、郵電、海軍、網路世界、石油、企業、虚擬現實、太空港、農業、能源實驗室、 眼、管道、潛艇等。還有兒童展區—童話城堡。

★芝加哥職棒大聯盟白襪隊(US Cellular Park)球場

芝加哥白襪(Chicago White Sox),是美國職棒大聯盟中,隸 屬於美國聯盟的棒球隊伍之一,主場位於伊利諾州的芝加 哥。在美國聯盟的分區中,屬於美國聯盟中區;1893年在愛 荷華州 Sioux 作為青年西部聯盟的一員創建; 1895 年該隊搬 到明尼蘇達州聖堡羅;1900年又搬到芝加哥。該聯盟在1901 年成為美國聯盟,主場位置在美國行動通訊球場(2003年至 今,1910~2002年稱為考米斯基公園),球衣顏色為黑和銀和 白色。





參訪之旅

行程內容

6/29 (Sat) 今日搭機飛往芝加哥,隔天抵達後前往伊利諾理工大學報到。

6/30~7/3 伊利諾理工大學科學探索營活動。

7/4(Thu) 慶祝美國國慶日IIT 停課,芝加哥市區觀光和看美聯芝加哥白襪隊比賽。

7/5(Fri) 芝加哥大學導覽參觀、市區觀光。

7/6~7/13 伊利諾理工大學科學探索營活動。

7/14(Sun) 密西根湖大湖區一日遊

7/15(Mon) 西北大學校園參訪

7/16 (Tue) 芝加哥/波士頓(長春藤名校~哈佛大學~M IT 麻省理工

學院參觀)

◎哈佛大學

哈佛大學坐落在與波士頓隔查理斯河相望的衛星城 劍橋(cambridge,又譯坎布裡奇)。地鐵和多座橋樑 把兩地聯成一體。早期先民嚮往著在新大陸也建一 座像英國劍橋那樣的大學城,因此把波士頓對面的 小鎮命名為劍橋。今天這裡的劍橋倒比那邊的劍橋 遠勝一籌,因為英國劍橋只是孤星閃耀,單峰獨矗, 而新大陸的劍橋則是繁星輝映,群峰起伏,方園百 里之內高等院校不下六七十座,其中僅在劍橋就有 兩座世界馳名的學府;哈佛大學和馬薩諳塞理工學 院(俗稱麻省理工學院)。



哈佛大學,這片樹林中的草地叫新哈佛園,在 1936 年新園被稱為三世紀戲院,以紀念哈佛三百周年校慶,不管天晴下雨,歷來開學及畢業典禮都在這裡舉行。

哈佛大學原稱劍橋學院。後來一位名叫約翰・哈佛的清教徒牧師(英國劍橋畢業),死後以其一半遺產



和 400 冊圖書捐獻與學。1639 年該校改稱哈佛,以示紀念。 哈佛先後為美國培養出 6 位總統(其中有羅斯福和甘迺迪)和 30 多位諾貝爾獎得主,不少畢業生成為傑出的政治家、文學 家、哲學家、科學家和企業家。大學部包括兩個本科生院;即 只招收男生的哈佛學院和只收女生的瑞德克利夫學院,另有 10 個研究生院專門培養碩士、博上,還附設許多研究機構。 全校共有 100 多個圖書館、2 個天文館和幾十個實驗室。 其 藏書量多達 1200 余萬冊,全世界的大學圖書館無出其有者。這裡的燕京圖書館專門收藏東亞國家的書籍,中文藏書之豐令人驚歎。從古代善本、珍本至文化大革命中的小報·冊子應有盡有。燕京圖書館內還有一個演講廳,經常有形形色色的"名人"(主要是些所謂的自由人士或藏獨**獨運輪一類的,當然也有國內名人)來此演講。

在美國,除國會圖書館外,就數這裡的中文書最多廠哈佛校園占地 380 英畝(合 2280 畝)。正中有建於 30 年代的紀念教堂,周圍是學生宿舍、圖書館和教室等各種不同風格的建築,其中如霍爾登小教堂、馬薩諳塞堂(現存最早的哈佛建築・建于 1720 年)、哈佛堂和維德納圖書館都是著的古建築,具有舊大陸建築的莊嚴典雅之美。當然校園中也不乏嶄新的現代化校舍。

學校裡處處是育育的草坪,蔽日的榆樹,那一幢幢紅磚砌成並爬滿長青藤的樓房,使人感到親切和寧靜。哈佛擁有9座博物館。它們既為教學服務,又向公眾開放。最值得參觀的要數植物學博物館。在這裡,瑞士的龍膽草伴隨著墨西哥的仙人掌,埃及的藍睡蓮映襯著朝鮮的金達萊,還有中國的梅花和牡丹。名花奇卉約有800種之多,色彩鮮豔而日,永不凋謝。

◎麻省理工學院參觀





(Massachusetts Institute of Technology,縮寫:MIT)是美國一所綜合性私立大學,有「世界理工大學之最」的美名。位於麻薩諸塞州的劍橋市,查爾斯河(Charles River)將其與波士頓的後灣區(Back Bay)隔開。今天 MIT 無論

是在美國還是全世界都有非常重要的影響力,培養了眾多對

世界產生重大影響的人士,是全球高科技和高等研究的先驅領導大學,也是世界理工科菁英的所在地。麻省理工是當今世界上最富盛名的理工科大學,《紐約時報》筆下「全美最有聲望的學校」。

至 2009 年,先後有 76 位諾貝爾獎得主和 45 位羅德獎學金得主曾在麻省理工學院學習或工作。經過麻省理工學院幾代人堅持不懈地努力奮鬥,時至今日,但凡有人提起「世界理工大學之最」,人人皆推麻省理工學院。麻省之名蜚聲海外,成為世界各地莘莘學子心嚮神往,趨之若鶩的科學聖殿。麻省理工學院的自然及工程科學在世界上享有極佳的盛譽,其管理學、經濟學、哲學、政治學、語言學也同樣優秀。另外,麻省理工研發高科技武器和美國最高機密的林肯實驗室、領先世界一流的電腦科學及人工智慧實驗室 CSAIL、世界尖端的媒體實驗室 MIT Media Lab、和培養了許多全球頂尖首席執行官斯隆管理學院也都是麻省理工赫赫有名寶貴資產。

在 2011 年全球資訊網的世界大學排名裡,科技龍兒搖籃的麻省理工以壓倒性的勝利排名世界第一。 泰晤士報專上教育增刊的世界大學排名,麻省理工學院在總平均排名世界第二(僅次於哈佛大學), 在科學技術方面排名世界第一,在工程科學方面排名世界第一,在自然科學方面排名世界第二,在社 會科學方面排名世界第七。美國國家研究協會把 MIT 在美國大學的知名度排第一。美國 Princeton Review 在 2006 把 MIT 命名為全美最難進的大學。至 2009 年,MIT 已連續十七年在美國大學理工學院排名奪冠。麻省理工學院在 2006 年 Washington Monthly 期刊裡對美國最有服務及貢獻的大學排第一。請看麻省理工學院排名。

以統計資料來分析,要申請上 MIT 的大學部比研究所難兩三倍。2010 年共有 16,632 世界頂尖的高中

生申請(包括約3,500名美國以外的學生)麻省理工學院大學部的1000名額(錄取率創MIT歷年來最新低)。麻省理工學院2008-2009學年的學雜費是\$49,100美元。2008-2009麻省理工學院學生平均領到的獎學金為\$33,950美元。MIT在2008年底有101億美元的總資產。因為MIT很有錢,家庭年收入低於\$75,000美元的學生一律免學費,所以MIT經常被喻為世界上最有錢也最慷慨的大學。



7/17 (Wen) 波士頓~紐約市區深度之旅(自由女神像、金牛銅雕、華爾街、證券交易中心、三一教堂、聯邦國家紀念堂)



◎自由女神像

美國的自由女神像(Statue of Liberty,Statue de la liberté),又稱「自由照耀世界」(英語:Liberty Enlightening the World,法語:Liberté éclairant le monde),是法國在 1876 年贈送給美國的獨立 100 週年禮物。美國的自由女神像坐落於美國紐約州紐約市附近的自由島,是美國重要的觀光景點及地標。

美國的自由女神像以法國塞納河的自由女神像作藍本, 法國著名雕塑家巴托爾迪歷時 10 年艱辛完成了雕像的 雕塑工作,女神的外貌設計來源於雕塑家的母親,而女 神高舉火炬的右手則是以雕塑家妻子的手臂為藍本。

自由女神穿著古希臘風格的服裝,所戴頭冠有象徵世界 七大洲及五大洋的七道尖芒。女神右手高舉象徵自由的 火炬,左手捧著一本封面刻有「1776年7月4日」字樣

的法律典籍, 腳下是打碎的手銬、腳鐐和鎖鏈。她象徵著自由、掙脫暴政的約束, 在 1886 年 10 月 28 日落成並揭幕。雕像鍛鐵的內部結構是由後來建造了巴黎艾菲爾鐵塔的居斯塔夫·艾菲爾設計的。

自由女神像高 46 米,加基座為 93 米,重 200 多噸,是金屬鑄造,置於一座混凝土制的台基上。自由 女神的底座是著名的約瑟夫·普利茲籌集 10 萬美金建成的。

1984年,自由女神像被列為世界文化遺產。

由於美國九一一事件,自由女神像頂部一直對公眾關閉。2009年7月4日美國獨立日,美國政府將其 重新開放。

◎金牛銅雕

華爾街銅牛位於美國紐約市華爾街邊上的一個碩大的銅牛雕塑,身長5米、體重6,300公斤,是華爾街的象徵,也是美國金融業的象徵。

1987年10月19日,紐約股市遭受重創,道瓊工業指數在一天內下跌22.6%,這給美國金融界帶來幾乎毀滅性的打擊,這一天因此被稱為華爾街"黑色星期一"。



正是在這樣的背景下,迪莫迪卡構思並著手創作"華爾街銅牛",他將自己對紐約的希望,對美國的希望熔鑄到了這尊身長5米、體重近6300公斤的雕塑作品中。他說:"當我看到有人失去了一切,我感到非常難過,於是我開始為年輕的美國人創作一件美麗的藝術品。"為了籌資,他賣掉了家鄉西西里祖傳農場的一部分,總共籌得資金36萬美元。

迪莫迪卡用了兩年時間,耗資 35 萬多美元,在自己的紐約工作室中完成了讓紐約人驕傲和振奮的"華爾街銅牛"。1989年的一個午夜,他在紐約證券交易所外將這座後來舉世聞名的銅牛塑像豎立起來,宣稱它是"美國人力量與勇氣"的象徵。

對於許多紐約人來說,這個象徵運氣和吉祥的銅牛幾乎是從天 而降的。1989年12月15日淩晨1時,在30名朋友的幫助下,

迪莫迪卡租用起重機,將這個龐然大物裝載到重型卡車上;徐徐運往華爾街紐約證券交易所門前的人行道上。"我們用 5 分鐘搞定一切,然後離開。"迪莫迪卡回憶說。早上人們都被這個牛角巨大、鼻孔發光的巨型雕塑驚呆了。為了保證銅牛的安全,迪莫迪卡與該區警察局達成協議,每晚 8 時對銅牛進行巡邏查看。

如今, "華爾街銅牛"已經成為紐約人不可缺少的精神支柱,似乎只要銅牛在,股市就能永保"牛"市。不僅如此,幾乎每一位慕名而來的遊客和拜訪者也都要觸摸它,希望從銅牛身上沾點好運氣,牛鼻和牛角已經被磨出光澤了。

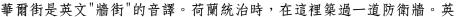
◎華爾街、證券交易中心、三一教堂、聯邦國家紀念堂



華爾街(Wall Street)是一條位於美國紐約市下曼哈頓的狹窄街道。東起百老匯,向西一路延伸至東河旁的南街,橫跨紐約曼哈頓的金融中心。今日,「華爾街」一詞已超越這條街道本

身,成為附近區域的代稱,同時也可以借指對整個美國經濟具有影響力的金融市場和金融機構。

華爾街是紐約證券交易所的第一個常駐地,至今仍是幾個主要交易所的 總部,包括:紐約證交所、納斯達克、美國證券交易所、紐約商業交易 所和紐約期貨交易所。許多金融公司的總部都已遷離華爾街,取而代之 的是曼哈頓的中城,以及紐約市的外圍地帶,諸如:長島、威斯特徹斯 特、費爾菲爾德、紐澤西州等地。





國人趕走荷蘭人後,拆牆建街,因而得名。華爾街差不多已成了紐約金融區的同義語,而實際上金融區的範圍還要延伸到華爾街以外的地方。雖然如此,人們談到世界金融中心的時候,還是常拿華爾街作答。

紐約證券交易所(New York Stock Exchange ~NYSE)是個莊嚴宏偉、金碧輝煌的建築,廊柱上掛有美國國旗;裡面就是在電視上常看到一群人吵吵鬧鬧地圍繞著電腦,不斷的打手勢買進賣出各種股票的場景;據說是可以進去參觀的,不過要事先申請。

華爾街(Wall Street) 是以紐約股票交易中心(New York Stock Exchange)而聞名,位於美國紐約市下曼哈頓的狹窄街道。這條街其實又窄又短,只能容一輛車通行,不特別注意路牌的話,根本不會發現這就是大名頂頂的金融聖地。

紐約三一教堂(Trinity Church)位於紐約市曼哈頓下城的百老匯大道 79 號(百老匯大道與華爾街的交匯處),是聖公會紐約教區的一座古老的堂區教堂。

1696年,英國聖公會購買這塊土地與建新教堂。目前的教堂祝聖於 1846年5月1日基督升天節,當時是曼哈頓下城最高的建築,是進入紐約港船隻的歡迎燈塔。它被認為是哥德復興式建築的經典實例,1976年被列入國家史跡名錄。



2001年9月11日,世界貿易中心的坍塌撞倒了教堂院內生長了一個世紀的無花果樹。

三一教堂是紐約市最大的土地擁有者之一。

位於紐約證券交易所斜對角的聯邦國家紀念堂,歷經了多種輝煌的身份:1789年,紐約為美國的首都時,美國國父華盛頓就是在此宣誓就職,(門口那座銅像就是華盛頓);1790年美國首都遷至費城後,這裡即變成紐約市政府,而 1812年,市政府新居啟用後,這座建築變成了美國海關大樓,現在,這座希臘式建築則為展示美國憲法的紀念堂,偶爾內部會舉行免費的音樂會,是品質極佳的藝術饗宴。

◎古根漢博物館

索羅門·古根漢美術館(The Solomon R. Guggenheim Museum)是一座位於 紐約市曼哈頓上東城的現代美術館,成立於 1937 年。它是古根漢基金會 (Solomon R. Guggenheim Foundation) 名下所持有的幾間美術館之中最著 名的一間,而且通常簡稱古根漢,它是紐約市最著名的美術館之一。原先稱 作"The Museum of Non-Objective Painting",古根漢成立以來展示了許多 早期現代派藝術家如瓦西里·康定斯基和彼埃·蒙德里安的前衛藝術品。



1943 年著名建築師法蘭克·洛伊·萊特收到古根漢基金會創辦人古根漢先生的邀請設計這座美術館,至 1944 年,萊特已經提出美術館的建築具體方案,但礙於第二次世界大戰剛剛結束,以及古根漢先生的逝世,工程一直被拖延到 1956 年才動工,在 1959 年時,萊特已將目前建地的設計案完成,萊特卻於同年四月去世,至同年十月,古根漢才搬到了它位在第五大道和第 89 街路口的現址,對街即為中央公園。



7/18 (Thu) 紐約市區深度探索之旅(大都會博物館、帝國大廈、 洛克斐勒中心、時代廣場、中央公園、第五大道)

◎大都會博物館



大都會藝術博物館(英語:Metropolitan Museum of Art) 位於美國紐約州紐約市中央公園旁,是世界上最大的藝術博 物館之一。主建築物面積約有 8 公頃,展出面積有 20 多公 頃。館藏超過二百萬件藝術品,整個博物館被劃分為十九個 館部。主建築物通常被簡稱為「the Met」。除了主館外, 還有位於曼哈頓上城區崔恩堡修道院(英語:Bonnefort Cloister)的第二分館。那裡主要展出中世紀的藝術品。

在眾多永久藝術收藏品中,包括許多出眾的古典藝術品、古

埃及藝術品、幾乎所有歐洲大師的油畫及大量美國視覺藝術和現代藝術作品。博物館還收藏有大量的 非洲、亞洲、大洋洲、拜占庭和伊斯蘭藝術品。博物館同時也是世界樂器、服裝、飾物、武器、盔甲 的大總匯。博物館的室內設計模仿不同歷史時期的風格,從1世紀的羅馬風格延續至現代美國。

大都會藝術博物館由一群美國公民於 1870 年發起構建。當時的發起人包括了商人、理財家、卓越的藝術家與思想家。他們期望博物館能夠給予美國公民有關藝術與藝術教育的熏陶。[5] 最後大都會藝術博物館於 1872 年 2 月 20 日開幕,當時的博物館位於第五大道 681 號。在 2007 年時,大都會藝術博物館已經有接近四分之一英里長及佔地二百萬平方英尺,是博物館最初大小的二十倍。





◎帝國大廈

帝國大廈(英語: Empire State Building),是位於美國紐約曼哈頓一棟著名的摩天大樓,位於第五大道 350 號,西 33 街與西 34 街之間,樓名源於紐約州的暱稱「帝國州」(Empire State),英文原意實際上是「紐約州大廈」或「帝國州大廈」,但由於帝國大廈的譯法已廣泛流傳,故沿用至今。帝國大廈是美國及紐約市最著名的地標和旅遊景點之一,帝國大廈目前是美國、美洲第 3 高,世界第 15 高的摩天大樓,地上 102 層,樓高 381 米,於 1951 年增添的天線高 62 米,總高 443 米,由 Shreeve,Lamb,and Harmon 建築公司設計,為裝飾藝術風格建築,大樓於 1930 年動工,1931 年落成,建造過程僅用了 410 天(一年又 2 個月內),是世界上罕見的建造速度紀錄。

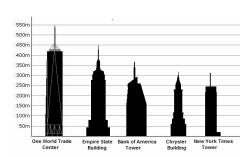
帝國大廈已被美國土木工程師學會(ASCE)評價為現代世界七大工程奇蹟之一,紐約地標委員會選其為紐約市地標[4],1986年該建築被認定為美國國家歷史地標,目前大廈在進行巨額費用的改建,正在努力轉變為一個更加節能的環保綠建築。

歷史帝國大廈的地址在 18 世紀後期本是一個農場。在那時此處還有一條小溪流過,併流入一個翻車魚池塘內。19 世紀後期,這裡曾建過社會名流經常光顧的華道夫-阿斯多里亞酒店。

建築設計與建設

一名施工中的建築工人,克萊斯勒大廈在後方可見來自 Shreeve, Lamb, and Harmon 建築公司的設計師威廉·F·蘭博負責建築的 主要設計。在前人的設計基礎上,他僅花了兩周的時間便構成了 建築圖紙。

帝國大廈是富豪拉斯各布決意修建的。最初的計劃是建一幢看上



去低矮結實的 34 層大廈,後來又作過 16 次修改,最後才採納了富豪拉斯各布的「鉛筆型」方案。也有人說最後定下的 102 層建築方案是世界空中輪廊線的傑作。最終採取的方案使得建築十分牢固。根據估算,建造帝國大廈的材料約有 330000 噸。大廈總共擁有 6500 個窗戶、73 部電梯,從底層步行至頂層須經過 1860 級台階。它的總建築面積為 204, 385 平方米。

第一次對外宣布建樓計劃聲稱這幢大廈的高度「接近300米」。這樣做其實是故意迷惑他人。拉斯各布生怕克萊斯勒搶了他的風頭,要在第86層的頂部加一個61米的飛艇碇泊塔,把整個建築物的高度增加到381米。在一次飛艇停泊時,海軍飛艇(Navy Blimp)上噴射出來的壓倉水把幾個街區以外的行人都弄得渾身透濕,最後不得不拆除了這個碇泊塔。

1930年1月22日項目開始動工,大廈於同年3月17日開始建築。項目涉及了3400名工人的勞動,工人主要是歐洲移民,也包括數百名蒙特婁附近的北美原住民。根據官方統計,施工過程中共有五名工人身亡[9]。帝國大廈的建設速度是每星期建4層半。這在當時的技術水平下,已算是驚人的了。整座大廈最後提前了5個月落成啟用,比預計的5000萬美元減少了10%,所用材料包括5660立方米的印第安那州(Indiana)石灰岩和花崗岩,1000萬塊磚和730噸鋁和不鏽鋼。

1931 年 5 月 1 日,帝國大廈正式落成,美國總統赫伯特・胡佛在首都華盛頓特區親自按下電鈕,點亮 大廈燈光。

開放

2005 年春季觀景台俯瞰紐約市全景圖

由於大廈落成之時,恰好處於經濟大蕭條時期,而且大廈地址遠離公共運輸,使得許多辦公室在 1940 年代之前一直空置,它在早期也因此被戲稱為「空國大廈」(Empty State Building)。



事故

帝國大廈除有多達 30 人次在此跳樓自殺外,也有不少火災事故發生,其中最為嚴重的一次即是 B-25 撞機事件。

B-25 撞機事件

聖誕節從 GE 大樓望去,帝國大廈的紅綠色燈光 1945 年 7 月 28 日上午 9:45,由一位中校駕駛的 B-25 米切爾型轟炸機由於當天的濃霧在空中迷失,撞向了大廈北側 79 層與 80 層,美國全國天主教福利會所在地。飛機的一個發動機飛到了另一座臨近建築的天台上,引發的大火燒毀了一間閣樓。其他的發動機和部分起落架掉入了電梯井。由此產生的大火將近 40 分鐘後被撲滅, 14 人在事故中遇難。儘管如此,在兩天後的周一,大廈的其他樓層繼續正常運作。



◎洛克斐勒中心

洛克斐勒中心號稱是 20 世紀最偉大的都市計劃之一,這塊區域佔地 22 英畝,由 19 棟建築圍塑出來的活動區域,對於公共空間的運用也開啟了城市規劃的新風貌,完整的商場與辦公大樓讓中城繼華爾街之後,成為紐約第二個市中心「DOWNTOWN」。洛克斐勒中心幾乎是費理斯畫作的完美呈現,包括建築群的分布與高低的配置,第五大道旁較為低矮的國際大樓緩緩起伏到第六大道旁最高的奇異電器大樓(69 層樓),交錯橫貫之間的是供市民使用的廣場〈海峽花園"Channel Garden"、下層廣場"Lower Plaza"等〉,這座迷你的小都市每天可容納 25 萬人次上班、觀光、消費。

嚴格來說,洛克斐勒中心區域涵蓋第五大道至第七大道,介於 47 街至 52 街之間,區內涵括餐廳、辦公大樓、服飾店、銀行、郵局、書店…,甚至還有地下鐵通道貫穿連結,建築師聰明地利用大樓間的廣場、空地與樓梯間製造人行流動的方向,讓一天超過 25 萬的人潮在此穿梭無虞。

洛克斐勒中心在建築史上最大的衝擊是提供公共領域的使用,這種為普羅大眾設計的空間概念引發後來對於「市民空間」(Civic Space)的重視,巧妙地利用大樓的大廳、廣場、樓梯間、路衝設計成行人的休息區、消費區,徹底落實為廣大中產階級服務的 30 年代,建築物不再是取悦上帝及皇帝的工具。

◎時代廣場



時報廣場(Times Square)是美國紐約市曼哈頓的一塊街區,中心位於西42街與百老匯大道交會處,範圍東西向分別至第六大道與第九大道、南北向分別至西39街與西52街,構成曼哈頓中城商業區的西部。

時報廣場的名稱源自《紐約時報》早期在此設立的總部大樓。因為英文裡「時報」(Times)和「時代」(times)相同,所以時報廣場常誤譯作「時代廣場」

歷史《紐約時報》發行人阿道夫·奧克斯將該報的總部遷到第四十二街,當時稱為 Longacre 廣場上的一座新建大樓裏。奧克斯成功游說時任市長的小喬治·布林頓·麥克萊倫 (George B. McClellan, Jr.) 在當地設立地鐵站,並在 1904 年 4 月 8 日將 Longacre 廣場正式更名為時報廣場。只在三星期後,第四十六街與百老匯交界的一間銀行的外牆,就出現了廣場上第一張廣告。

自 1913 年起,《紐約時報》不再於時報廣場上的大樓辦公,但其總部仍然在該區內。那座大樓一度被稱為聯合化工大樓,現在稱為時報廣場一座,更成為每年最後一天降球儀式的地點。降球儀式始於 1907 年 1 月 1 日,自此以後時報廣場更成為紐約市慶祝新年時的主要地點。當晚數以十萬計的人群都會聚集觀看由 Waterford Crystal 出品的水晶球從高處降到地面,象徵新一年的開始。這取代了之前(從 1904 年到 1906 年)市政府以安全為由而取締的大型煙火匯演。在第二次世界大戰期間,由於戰時燈光管制,儀式被暫時簡化為一分鐘靜默,隨即播放教堂鐘聲的錄音。

時報廣場快速發展成為聚集劇院、音樂廳、以及特色酒店的文化集中地。「時報廣場迅速成為了紐約的市集,一個人們聚集、等待、和慶祝大事的地方,無論是棒球世界大賽還是總統選舉的時候。」詹姆斯·特勞布(James Traub)在《魔鬼遊樂場:時報廣場利樂一世紀》(The Devil's Playground: A Century of Pleasure and Profit in Times Square)中寫道。歐文·柏林(Irving Berlin)、弗雷德·阿斯泰爾、查理·卓別林:這些都是 1910 年代和 1920 年代跟時報廣場有密切關係的名字。

隨著 1930 年代大蕭條到臨,廣場氣氛出現轉變。時報廣場充斥著色情表演場所、通宵放映性愛映畫的電影院、以及售賣廉價旅遊紀念品的商店。傳媒人戴蒙·魯尼恩(Damon Runyon)所著的故事集《紅男綠女》(Guys and Dolls)反映了這時的轉變。以後的數十年內,時報廣場被很多人視為危險的地帶。時報廣場繼而從 1960 年代到 1990 年代成為紐約市危險與敗壞的象徵。有很多題材黑暗而具影響力的電影,如《午夜牛郎》和《計程車司機》等,其中不少情節都在時報廣場取景。而區內的不良電影院放映低級電影,更是等閒的事。

到了 1990 年代中期,市長朱利安尼(1994 年至 2002 年期間在任) 開展淨化該區的工作,包括封閉色情場所、加強治安、以及開設更多適合遊客的觀光點。當地政府曾經發出行政命令,驅逐第四十二街附近林立的色情商店。很多場所因此被迫關閉,或者遷到布魯克林區或皇后區等工業地區,取而代之則是比較高級的商業活動。



今日的時報廣場百老匯上的劇院、大量耀眼的霓虹光管廣告、以及電視式的宣傳版,已經深入成為象徵紐約的標誌,反映曼哈頓強烈的都市特性。時報廣場是市內唯一在規劃法令內,要求業主「必須」 懸掛亮眼宣傳版的地區。時報廣場宣傳版的密度,與拉斯維加斯可相比擬。



1992 年時報廣場聯盟(Times Square Alliance,前稱「時報廣場改善營商區」,Times Square Business Improvement District,簡稱 BID)成立,旨在透過團結當地企業的力量,改善該區的營商與衛生環境。時報廣場現在已經成為遊客熱點的集中地,包括美國廣播公司節目《美國,早安》的直播現場、玩具反斗城和好時巧克力(Hershey's)專賣店,中菜「傅」[1]、海鮮專賣店阿甘蝦餐廳(Bubba Gump Shrimp Company)、與義大利餐廳洋紅(Carmine's)等餐廳,以及數間多院電影院。時報廣場也吸引了一些大規模的財金、出版、和媒體企業在該區設立總部。駐守的大批警察改善了當地的治安。獲得新生的時報廣場無疑更安全更被人接受,然而也有人指該區已經失去原來的光芒,被淨化為一個被「迪士尼化」的廣場。

眾多宣傳版中,其中一個著名的是位於時報廣場四座納斯達克交易所外的納斯達克標誌與股市行情表 螢幕。螢幕用了 3700 萬美元製作,螢幕高達 120 呎 (36.6 米),於 2000 年 1 月揭幕啟用。光是租用 這個位置,就花費納斯達克每年至少 200 萬美元。在廣告市場內這其實已經算是一個優惠的價格,因 為廣告「出現」的次數遠超於其他類型的廣告所能達到的。

2002年,即將離任的市長魯迪·朱利安尼,在1月1日零時過後,監督接任市長麥可·布隆伯格的就職宣誓儀式。這是 2001 至 2002 年度新年慶典的一部分。當時有 50 萬人見證了這個時刻。因為九一一襲擊事件的緣故,當時有多達 7000 名紐約市警察駐守廣場,是正常新年時警力的兩倍。

◎中央公園

中央公園(Central Park)位於紐約曼哈頓區,長 4 公里,寬 800 公尺,總面積 3.41 平方公里, 大約是 487 個國際標準足球場的總和,曾經出現在超過 240 部的電影和無計其數的電視影集,使它 成為世界上最有名的城市公園,有人說公園是城市之肺,而中央公園之於紐約,更可以說是不可或缺 的心臟。



中央公園是美國第一座公共公園,自 1957年開始建造,耗時 15年完成,園內共有 7座水池、51座雕像(50座為受贈禮物)、36座橋樑與拱門、約 93公里的人行步道、9,000張長椅(連接起來長度超過 11公里)、超過 26,000株的樹木、甚至還有 2個動物園,即「中央公園動物園」(Central Park Zoo)及「兒童動物園」(Children's Zoo)。

中央公園每年吸引 2,500 萬的訪客踏進公園,不是只靠它美麗的外貌,許多人都是為了參加在中央公園舉辦的文化、社交或表演活動,除了日常的遛狗遛小孩、騎馬

划船、棒球網球、溜冰單車、馬拉松練習以外,每年固定舉辦的地球日活動、著名又搶手的舞台劇公演(Shakespeare in the Park)、紐約愛樂交響樂團與大都會歌劇院的露天表演等,都吸引

了大批的觀眾,溫暖了都市叢林中受寒的心靈

◎第五大道

第五大道(Fifth Avenue),是美國紐約市曼哈頓一條重要的南北向幹道,南起華盛頓廣場公園,北抵第138街。由於第五大道位於曼哈頓島的中心地帶,因此曼哈頓島上東西走向的街道有時會以這



條街道為界而加以東西的稱呼。(例如第五大道以西的十街就稱為西十街)。

第五大道上景點眾多,由南至北有帝國大廈、紐約公共圖書館、洛克菲勒中心、聖派屈克教堂以及中央公園等。此外,由於中央公園附近有大都會藝術博物館、惠特尼美術館、索羅門·古根漢美術館、庫珀·休伊特設計博物館等著名的美術博物館等,因此被稱為「藝術館大道」(Museum Mile)。在60 街到34 街之間的第五大道,則被稱為「夢之街」,因為這裡聚集了許多著名的品牌商店,是高級購物場所。據英國一家諮詢公司對全球45 個國家所做的年度調查顯示,第五大道仍是全球租金最貴的零售業場所。第五大道商鋪的年租金可超過每平方英尺1000美元(1平方米=10.764平方英尺)。



第五大道也是紐約市民舉行慶祝活動的傳統途徑路線,在夏 季的星期日是禁止汽車通行的步行街。

第五大道在 19 世紀初不過是片空曠的農地,經過擴建後,逐漸變成紐約的高級住宅區及名媛仕紳聚集的場所,高級購物商店也開始出現。進入 20 世紀後,第五大道變成了摩天大樓「爭高」的場所,其中以 1934 年落成的帝國大廈為最高樓。

有關華盛頓特區 W ashington D C 簡介



是資本在美國成立於7月16,1790。華盛頓的城市,原本是分開的自治市領土內,直到哥倫比亞國會採取行動,在1871年合併,有效地市和領土成一個單一的實體稱為哥倫比亞特區。正是由於這個原因,城市,而在法律上命名為哥倫比亞特區,被稱為華盛頓

這個城市位於北岸的波托馬克河與接壤的州弗吉尼亞州的西南部和馬里蘭州的其他各方。常住人口有599657,由於乘客周圍郊區,人口上升到超過100萬,在工作時間。在首都華盛頓地區,其中區是一部分,有人口5.3萬,第九大都會區在該國。

第一條美國憲法規定了聯邦地區,有別於國家,作為永久首都。該中心的所有三個部門的聯邦政府對 美國設在區,因為有許多國家的古蹟和博物館。華盛頓特區主機174 外國駐華使館,以及總部的世界 銀行,在國際貨幣基金組織(貨幣基金組織),美洲國家組織(美洲組織),美洲開發銀行和泛美 衛生組織(泛美衛生組織)。總部的其他機構,如工會,遊說團體,專業協會也設在區。

這個城市是由一個市長和一個13 人組成的市議會。然而, 美國國會擁有最高權力在華盛頓特區,並可能推翻當地的法律。區居民,因此較少自治超過居民的狀態。區有一個無表決權超大國會代表,但沒有參議員。區居民無法投票選舉總統之前,批准了第二十三次修訂美國憲法於1961 年。

華盛頓特區是一個規劃的城市。設計為華盛頓市的工作主要是對皮埃爾(彼得)查爾斯歐萊雅朗方, 法國出生的建築師,工程師,城市規劃誰第一次來到殖民地作為一個軍事工程師與拉法耶特少將在美 國革命戰爭1791 年,華盛頓總統委託歐萊雅朗方規劃佈局的新首都歐萊雅Enfant's 計劃是在模仿巴 洛克風格和輻射納入途徑從矩形,空間提供休憩用地和美化他的設計還設想了一個花園式內觀的"大 渠道"大約1 英里(1.6 公里)長和400 英尺(120 米)寬的領域,現在是國家廣場



在1792 年3 月,華盛頓總統駁回歐萊雅朗方由於他堅持微觀管理城市的規劃,這已經導致衝突與三名專員任命華盛頓監督首都建設。安德魯埃利科特,誰一直與歐萊雅朗方測量的城市,然後委託他們完成計劃。雖然埃利科特了修改原來的計劃,其中包括更改一些街道模式,歐萊雅朗方仍記入與整體設計的城市。[55]在華盛頓市界按現在佛羅里達州大道北,搖滾溪西,和Anacostia 河向東

由開始的20 世紀,歐萊雅Enfant's 視覺資本開放公園和大的國家古蹟已成為貧民窟蒙上陰影,隨機放置的建築物,包括火車站的國家廣場1900 年,美國國會成立了一個聯合委員會,負責參議員詹姆斯麥克

米蘭,被控美化華盛頓禮儀的核心。什麼被稱為麥克米蘭計劃於1901 年定稿。它包括重新美化國會大廈前的理由和購物中心,與建新的聯邦建築物和古蹟,清理貧民窟,全市範圍內建立一個新的公園系統。建築師招募委員會保留大部分城市的原始佈局,以及他們的工作被認為是基本上保持與歐萊雅Enfant's 打算設計

前10 大的美國建築師學會'2007 年排名的"美國最喜歡的建築",位於哥倫比亞特區美國白宮,在華盛頓國家大教堂,在托馬斯杰斐遜紀念館,在美國國會大廈;的林肯紀念堂,以及越戰紀念碑。在新古典主義,格魯吉亞,哥特式和現代建築風格都反映在這6 個機構和許多其他著名的華廈在華盛頓舉行。明顯的例外,包括建築建造在法國第二帝國風格,如舊行政辦公大樓

華盛頓市中心以外,建築風格更加多樣化。歷史建築的設計主要是在安妮女王,Châteauesque, Richardsonian 羅馬,格魯吉亞復興, 美術學院,以及多種維多利亞風格。聯立式房屋內有突出的 地區,特別是發達國家在南北戰爭之後,通常遵循聯邦和維多利亞後期設計喬治敦成立以來在華盛頓

城市,街道的功能區最古老的建築。喬治城的老石家建於1765年,是最老,地位的原建設的城市目前多數家庭在附近,但是,並沒有建立,直到19世紀70年代後期和反映維多利亞設計的時期。成立於1789年,喬治敦大學,更不同於附近,並配有混合的羅馬式和哥特復與式建築在裡根大廈是最大的建設區總面積大約為310萬平方英尺(28.8萬米)



有關紐約A bout New York 簡介

很多人可能不知道紐約名稱的由來,1621 年, 荷蘭人原本將此地稱為「新阿姆斯特丹」,後 來到了1664 年,英國人將這個原屬荷蘭的殖民 地搶走,並且重新取名為「New York」(紐約), 後來這個名稱一直到1783 年,在美國獨立之後 仍然被沿用迄今。

而對於多元文化的包容,一直是紐約最偉大的 優點之一,三百年來,這座年輕的舞台,以各





種形式表現在此輪番上演著各具特色的劇碼,在衝突與融合的微妙互動之間,激盪成一股異常旺盛的生命力,也呈現出多采多姿的新世界 風貌。

佔領紐約牆面的塗鴉文化(G raffiti's A rt)

美國從1970年代開始,素人畫家以艷麗油彩、狂放筆觸恣意揮灑在 紐約的屋頂、牆壁、地鐵站的「塗鴉」,這種沒有修飾的粗放藝術, 形成紐約特殊的都市景觀,並且從地鐵,一路發揚光大出現在街頭, 並延伸到藝廊、美術館與世界各地……。

其中,以塗鴉聞名的翹楚是凱斯哈林(Keith Haring),他的作品以自由奔放的線條勾勒出中空的人型,這種風格別具的表現手法漸漸從暗無天日的地鐵牆壁攀升到藝廊、美術館、世界各地,凱斯哈林31歲

即因AIDS 去世,而他的塗鴉作品使精緻藝術與通俗文化打破藩籬,並且讓藝術的呈現方式真正走入 人群,不過現在要目睹昔日「紐約塗鴉之王」的真跡,只有親自走一趟美術館囉!否則就得到專賣店 購買紀念品吧!

族群融合的小地球村(We are the World)

曼哈頓島由北至南,讓全世界不同的種族分區佔領,哈林區是非洲人的黑暗新大陸、上東區有德國教堂、中城東部是日本餐廳的天下、第五大道與31 街充斥著韓國紀念品店、東村東端瀰漫著印度檀香的神秘氣息、東村西邊有烏克蘭的東正教教堂與愛爾蘭酒館,一路往南是古老的中國城與毗鄰的小義大利,沿著當年印地安人走出來的百老匯大道,在曼哈頓島的南端,自1625 年,荷蘭人登陸紐約的第一步起,300 多



年以來,不辭細壞、不擇細流的紐約讓豐富多元的民族文化交流迸發出璀璨的光芒。

交通概況

飛航資訊目前由台灣飛紐約航線,計有華航、長榮、國泰、西北、聯合、泰國等航空公司,訂位電話分別為中華航空(02)2715-1212,長榮航空(02)2501-1999,國泰航空(02)2715-2333,西北航空(02)2772-2188,聯合航空(02)2325-8868,泰國航空(02)2509-6800,飛行時間約需17 小時。

市區交通

◎地下鐵紐約地下鐵在市區旅遊最便捷的交通方式,24 小時營運,全年無休,地鐵系統每天載運350萬人次,有468 個車站,包括25 個免費的轉運點,包括1-7 和9,及A-G、J、L-N、Q-S、V、W、Z 等共27 條路線,路線彼此交疊,方便轉車;大多數的地鐵站入口處會有紅色或綠色燈球標示,「綠色」表示會有24 小時的售票亭,「紅色」則表示會限制進入的時段。

1. 車種區分為「Express」(快車)和「Local」(慢車)兩種車,快車全日營運,只停大站,有的地鐵站則只停靠慢車而不停快車,至於慢車則每站都停,需要特別注意;上車後若有廣播要注意收聽,因為有時候班車會互相調度,中途兩車種會有互換的情形,尤其是在進出曼哈頓地區時最常見。

2. 購票在紐約搭乘地鐵相當方便,可以在地鐵站的售票機器,自行購買便捷優惠的地鐵周遊券 (MetroCard),票價主要可分為下列4 種:*單程票(Per Ride)—費用2美元,只要不出站的話,便可以在站內任意換線,相當方便。*1 日通行證(One DayFun Pass),費用7 美元,1 天內不限次數搭乘地鐵和區域巴士,可使用至購買當天凌晨03:00。*7 天券(7-Day UnlimitedRide),費用24 美元,



7 天內不限次數搭乘地鐵和區域巴士。*1 個月(30-Day Unlimited Ride),費用76 美元,30 天內不限次數搭乘地鐵和區域巴士。

◎公車紐約的公車也很方便,可以與地鐵互相搭配。藍白相間的紐約市公車,行駛於曼哈頓、皇后區、布魯克林、布朗克斯、史丹頓島等5個區、超過200條路線,記得上車時要準備零錢,票價\$2,不收紙幣也不找零錢,如果要轉車的話,可在上車投幣時索取免費換車券(Transfer),2小時內可搭乘任何轉接班車。

上車前要看清楚公車上方和側前方的路線號碼,或詢問司機 是否到達你要去的目的地。公車只停靠指定的車站位置,主 要大道上從北到南,平均每隔兩條街就有一站,東西向的則 是環市公車(Crosstown Bus),停靠每個街區。許多路線是

24 小時營運,傍晚後班次較少;部分路線只在07:00-22:00 間行駛。

②計程車計程車由2.5 美元起跳,每行駛0.2 英里加30 Cents,如遇紅燈或堵車,每超過1分鐘加20 Cents;晚上8 點-早上<math>6:00 間夜間加程,費用要多付50 Cents;小費是總車資15%;如果有行李,每一件並且要多給小費1-2 美元。

- ◎乘車注意事項1. 搭乘地鐵盡可能避免特別擁擠的尖峰時段,像是07:30-09:30 或是17:00-18:30。另外,在夜間23:00 到凌晨07:00 之間搭乘地鐵,特別是過了東96 街、西120 街,以及曼哈頓以外的郊區,危險性也相對增高。
- 2. 記得42 街附近幾個擁擠的車站,由於人潮洶湧要特別注意防範扒手;比較荒涼、人煙稀少的車站 則要小心暴力犯罪。
- 3. 候車時不要站得靠月台邊緣太近,免得一不小心被蓄意推擠或跌下去,另外,車廂停靠關車時間很快,要小心趕快走進車廂內,以免被夾傷。

交通概況

◎如何辨別紐約街道曼哈頓是一個長型小島,除了Downtown 必須按圖索驥外,其他街道都呈棋盤式排列。東西向道路叫作「Street」,從格林威治村的第一街(1st Street)開始算起,街數由南往北漸增。而南北向的道路叫作「Avenue」,由最東邊的「Avenue A、B」開始,往西數目遞增,

最西邊的是「12th Avenue」,中間則插進幾條大道, 紐約客在說明地址時,通常會提到「位於第幾街或第 幾大道」間,也就是「between ___ and ___ Street」。 注意事項【駐紐約臺北經濟文化辦事處】Taipei Economic and Cultural Office in New York1, E. 42nd Street New York, NY10017 U.S.A.

電話: (1-212)317—7300 傳真: (1-212)754—1549 領務專用電話: (1-212)486—0088 領務專用傳真: (1-212)421—7866 領務專用電子郵件信箱:

consular@tecony.org *辦理護照換新、簽證及文件 驗證,請至第4 樓領務服務部門急難救助: 行動電 話(1-917)743-4546(假日)

行動電話(1-212)317-7300(平日) 美國境內直撥: 1-917-743-4546,1-212-317-7300

受理領務申請案件時間: 週 $-^{\sim}$ 週五: $09:00^{\sim}16:$ 30(截止收件,中午不休息)

週六:09:00~11:00(截止收件)



◎ 美國旅遊推展協會(台北) 電話:(02)2723-1762

傳真: (02) 2723-1763

網址:http://www.seeamerica.org.tw/

②紐約市旅客服務中心(The NYC & Company Visitor Information Center) 地址:810Seventh Avenue (位於52nd 和53rd St. 之間) 電話:(212)484-1222 時間:星期一至星期五08:30 $^{\circ}$ 18:00,週末假日09:00 $^{\circ}$ 17:00。

網址:http://www.nycvisit.com

②時代廣場旅客服務中心(Times Square Information Center) 地址:1560 7 Ave. (位於第七大道、46 St. 和47 St. 之間) 電話:(212)869-1890 時間: $08:00^{\sim}20:00$ 網址:http://www.timessquare.org 備註:提供紐約的地鐵圖、公車路線和戲劇娛樂等資訊,也有電腦可讓遊客上網查詢。

◎時代廣場旅客資訊中心(Times Square Information Center) 電話: 212-869-1890 地址: 1560 7 Ave. (位於46 St. 和47 St. 之間) 網址: http://www.timessquare.org 營業時間: 08:00-20:00

STUDT TOUR AT IIT WORK SHEETS

Learning and experiencing

PREFACE: Briefing of work sheets

 These work sheets included all of knowledge about nation's civilian space program and aeronautics and aerospace for students who participate in the trip of STUDY TOUR AT IIT.

HOW TO USE THESE WORK SHEETS?

- Using these work sheets as information resources day by day and step by step.
 跟著行程一邊練習你的作業單。
- You can get useful information about visiting trips and obtain further detail knowledge from these work sheets.
 從這本學習單,你可以得到額外的資訊和更進一步的知識關於旅遊行程。
- It will be helpful if you pre-study the information every day. Or you can pre study before the day beginning.
 每天閱讀書本的資訊內容,加深你對這些知識的瞭解。
- Electrical dictionary will be required and helpful with these work sheets. 此本學習單將需要使用到電子辭典,遇到不會的單字可以查詢幫助記憶。
- Don't be afraid of reading English information, the more you read, the more you will find interesting knowledge and information included on it.
 不要害怕嚐試去瞭解英文的訊息。閱讀越多,越發現更多更有趣的資訊喔!!
- After daily visiting, combine what you have pre learned and with these work sheets will impress your understanding on this trip.
 在每天參觀過後,結合今日所學與作業單裡的書面訊息做結合,加深對參訪的地方的瞭解。
- Don't forget to finish the questions below after you have read the Chinese or English articles.
 The answer could be from Chinese or English article. You can write answer in Chinese or English.
 不要忘記讀完每日資料後,下方有題目可以測驗是否瞭解並深入內容。你可用英文或中
 - 个要忘記讀完每日資料後,下万有題目可以測驗是否瞭解亚深入內容。你可用英乂或中文作答。答案在中文或英文的文章內可以找到,注意劃線的部份。
- You can discuss the questions with your friends and partner, try to brainstorm together and get conclusion.
 你可以和你認識的新朋友或夥伴一起討論答案,腦力激盪一起想出結論。
- If you have further questions to ask, please ask teacher without hesitation, he/she will assist you to work out your enquiries.
 如果你有任何不懂的資訊,可以問我們的課堂老師,請老師幫助你一起做答。

◎哈佛大學 Harvard University

Harvard is a private Ivy League university located in Cambridge, Massachusetts, United States, established in 1636 by the Massachusetts legislature. Harvard is the oldest institution of higher learning in the United States and the first corporation (officially *The President and Fellows of Harvard College*) chartered in the country. Harvard's history, influence, and wealth have made it one of the most prestigious universities in the world.

Harvard was named after its first benefactor, John Harvard. Although it was never formally affiliated with a church, the college primarily trained Congregationalist and Unitarian clergy. Harvard's curriculum and students became increasingly secular throughout the 18th century and by the 19th century had emerged as the central cultural establishment among Boston elites. Following the American Civil War, President Charles W. Eliot's forty year tenure (1869–1909) transformed the college and affiliated professional schools into a centralized research university, and Harvard became a founding member of the Association of American Universities in 1900. James Bryant Conant led the university through the Great Depression and World War II and began to reform the curriculum and liberalize admissions after the war. The undergraduate college became coeducational after its 1977 merger with Radcliffe College. Drew Gilpin Faust was elected the 28th president in 2007 and is the first woman to lead the university. Harvard has the largest financial endowment of any academic institution in the world, standing at \$27.4 billion as of September 2010.

The university comprises eleven separate academic units — ten faculties and the <u>Radcliffe Institute for Advanced Study</u> — with campuses throughout the Boston metropolitan area. Harvard's 210-acre (85 ha) main campus is centered on <u>Harvard Yard</u> in Cambridge, approximately 3.4 miles (5.5 km) northwest of downtown <u>Boston</u>. The <u>business school</u> and athletics facilities, including <u>Harvard Stadium</u>, are located across the <u>Charles River</u> in <u>Allston</u> and the <u>medical</u>, <u>dental</u>, and <u>public health</u> schools are located in the <u>Longwood Medical Area</u>.

As of 2010, Harvard employs about 2,100 faculty to teach and advise approximately 6,700 undergraduates (<u>Harvard College</u>) and 14,500 graduate and professional students. Eight <u>U.S. Presidents</u> have graduated from Harvard and 75 <u>Nobel Laureates</u> have been <u>affiliated</u> with the university as students, faculty, or staff. Harvard is also the <u>alma mater</u> of sixty-two living billionaires, the most in the country. The <u>Harvard University Library</u> is the largest academic library in the United States, and the <u>second largest library in the country</u>.

The Harvard Crimson competes in 41 intercollegiate sports in the <u>NCAA</u> Division I Ivy League. Harvard has an intense athletic rivalry with Yale University traditionally culminating in *The Game*, although the Harvard–Yale Regatta predates the football game.

◎哈佛大學 Harvard University-Rankings

Harvard's undergraduate program is ranked first among "National Universities" by *U.S. News & World Report* and eighth by *Forbes* The university is ranked ninth nationally by *The Washington Monthly*.

Internationally, Harvard is ranked first in the <u>Times Higher Education World University Rankings</u> and second in the <u>QS World University Rankings</u>. When the two lists were published in partnership between 2004 and 2009 as the <u>Times Higher Education-QS World University Rankings</u>, Harvard was ranked first each year. Harvard is ranked first by the <u>Academic Ranking of World Universities</u> (ARWU), a position it has held since the first ARWU rankings were released in 2003. In its individual subject tables, ARWU ranked Harvard first in natural sciences and mathematics, life and agricultural sciences, clinical medicine and pharmacy, social sciences, and 42nd in engineering/technology and computer sciences. In individual fields in 2010, Harvard is ranked first in Physics and Economics/Business, second in Chemistry, third in Mathematics, and ninth in Computer Science in the world.

In the 2009 QS Global 200 Business Schools Report, Harvard was ranked first in North America.

In 2010, according to University Ranking by Academic Performance (URAP), Harvard is the best overall university in the world.

In 2010 Harvard University was, for its excellence in co-operation projects with the corporate world globally and especially in the US, chosen to be a part of the <u>BBNM</u> Group. They are currently represented among the BBNM Member schools.

◎哈佛大學 Harvard University-Colonial



← Harvard was founded in 1636 by vote of the Great and General

Court of the <u>Massachusetts Bay Colony</u>, making it the oldest institution of higher learning in the United States. Initially called "New College" or "the college at New Towne", the institution was renamed <u>Harvard College</u> on March 13, 1639. It was named after

<u>John Harvard</u>, a young English <u>clergyman</u> from <u>Southwark</u>, <u>London</u>, an alumnus of the <u>University of Cambridge</u> (after which Cambridge, Massachusetts is named), who bequeathed the College his library of four hundred books and <u>£779 pounds sterling</u>, which was half of his estate. The charter creating the corporation of Harvard College came in 1650. In the early years, the College trained many Puritan ministers. The college offered a classic academic course based on the English university model—many leaders in the colony had attended Cambridge University—but one consistent with the prevailing <u>Puritan</u>

philosophy. The College was never affiliated with any particular denomination, but many of its earliest graduates went on to become clergymen in Congregational and Unitarian churches throughout New England. An early brochure, published in 1643, justified the College's existence: "To advance *Learning* and perpetuate it to Posterity; dreading to leave an illiterate Ministery to the Churche".

The leading Boston divine Increase Mather served as president from 1685 to 1701. In 1708, John Leverett became the first president who was not also a clergyman, which marked a turning of the College toward intellectual independence from Puritanism.

Are you familiar with all of contents above? Let's take a quiz!!

Where is Harvard? Where is it located?

1

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2.	When is the Harvard established?
3.	The original name of Harvard is?

4. Who changed the Harvard into a centralized research university?

5. How about the rank of Harvard in the world?

◎麻省理工學院 Massachusetts Institute of Technology

<u>Massachusetts Institute of Technology (MIT)</u> is a private research university located in Cambridge, <u>Massachusetts. MIT has five schools and one college, containing a total of 32 academic departments, with a strong emphasis on scientific and technological education and research.</u>

Founded in 1861 in response to the increasing <u>industrialization of the United States</u>, the Institute adopted the <u>European polytechnic university model</u> and emphasized laboratory instruction from an early date. MIT's early emphasis on applied technology at the undergraduate and graduate levels led to close cooperation with industry but curricular reforms under <u>Karl Compton</u> and <u>Vannevar Bush</u> in the 1930s re-emphasized basic scientific research. MIT was elected to the <u>Association of American Universities</u> in 1934 and researchers were involved in efforts to develop <u>computers</u>, <u>radar</u>, and <u>inertial guidance</u> in connection with <u>defense research</u> during <u>World War II</u> and the <u>Cold War</u>. Post-war defense research contributed to the rapid expansion of the faculty and campus under <u>James Killian</u>.

The current 168-acre (68.0 ha) campus opened in 1916 and extends over 1 mile (1.6 km) along the northern bank of the <u>Charles River basin</u>. In the past 60 years, MIT's educational disciplines have expanded beyond the <u>physical sciences</u> and <u>engineering</u> into fields like <u>biology</u>, <u>economics</u>, <u>linguistics</u>, <u>political science</u>, and <u>management</u>.

MIT enrolled 4,232 undergraduates and 6,152 graduate students for 2009–2010. It employs around 1,000 faculty members. 76 Nobel Laureates, 50 National Medal of Science recipients, and 38 MacArthur Fellows are currently or have previously been affiliated with the university.

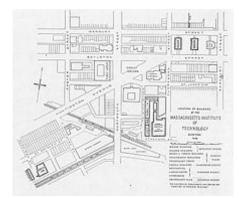
MIT has a strong entrepreneurial culture and the aggregated revenues of companies founded by MIT alumni would be the eleventh largest economy in the world. MIT managed \$718.2 million in research expenditures and an \$8.0 billion endowment in 2009.

The Engineers sponsor 33 sports, most teams of which compete in the <u>NCAA Division III</u>'s <u>New England Women's and Men's Athletic Conference</u>; the <u>Division I</u> rowing programs compete as part of the <u>EARC</u> and EAWRC.

◎麻省理工學院 Massachusetts Institute of Technology-Foundation and early

years (1857–1917)

In 1859, the Massachusetts General Court was given a proposal for use of newly opened lands in Back Bay in Boston for a museum and Conservatory of Art and Science. In 1861, The Commonwealth of Massachusetts approved a charter for the incorporation of the "Massachusetts Institute of Technology and Boston Society of Natural History" submitted by William Barton Rogers. Rogers sought to establish a new form of higher education to address the challenges posed by rapid advances in science and technology during the mid-19th century with which classic institutions were ill-prepared to deal. Barton believed, "The true and only practicable object of a polytechnic school is, as I conceive, the teaching, not of the minute details and manipulations of the arts, which can be done only in the workshop, but the inculcation of those scientific principles which form the basis and explanation of them, their leading processes and operations in connection with physical laws."



← A 1901 map of MIT's Boston campus.

he Rogers Plan, as it has come to be known, reflected the German research university modTel, emphasizing an independent faculty engaged in research as well as instruction oriented around seminars and laboratories. Rogers proposed that this new form of education be rooted in three principles: the educational value of useful

knowledge, the necessity of "learning by doing", and integrating a professional and liberal arts education at the undergraduate level.

Because open conflict in the <u>Civil War</u> broke out only weeks after receiving the charter, MIT's first classes were held in rented space at the Mercantile Building in downtown <u>Boston</u> in 1865. Though it was to be located in the middle of Boston, the mission of the new institute matched the intent of the 1862 <u>Morrill Land-Grant Colleges Act</u> to fund institutions "to promote the liberal and practical education of the industrial classes." Although the Commonwealth of Massachusetts founded what was to become the <u>University of Massachusetts</u> under this act, MIT was also named a land grant school. The proceeds went toward new buildings in Boston's Back Bay in 1866; MIT was called "Boston Tech." During the next half-century, the focus of the science and engineering



curriculum drifted towards vocational concerns instead of theoretical programs. Over the next 40 years, the

MIT faculty and alumni repeatedly rejected overtures from <u>Harvard University</u> president <u>Charles W. Eliot</u> to merge MIT with Harvard College's <u>Lawrence Scientific School</u>.

◎麻省理工學院 Development and post-war growth (1916–1965)

Industrialist <u>George Eastman</u> donated the funds to build a new campus along a mile-long tract on the Cambridge side of the Charles River, almost entirely on landfill. In 1916, MIT moved into the handsome new <u>neoclassical campus</u> designed by <u>William W. Bosworth</u>.

In the 1930s President Karl Taylor Compton and Vice-President (effectively Provost) Vannevar Bush drastically reformed the applied technology curriculum by re-emphasizing the importance of "pure" sciences like physics and chemistry and reducing the work required in shops and drafting. In sharp contrast to the Ivy League, it catered to middle-class families and depended more on tuition than on endowments or grants. Despite the challenges of the Great Depression, the reforms "renewed confidence in the ability of the Institute to develop leadership in science as well as in engineering." The expansion and reforms cemented MIT's academic reputationand it was elected to the Association of American Universities in 1934.

MIT was substantially changed by its involvement in military research during World War II. Bush was appointed head of the enormous Office of Scientific Research and Development and directed funding to only a select group of universities, including MIT. MIT's Radiation Laboratory was established in 1940 to assist the British in developing a microwave radar and the first mass-produced units were installed on front-line units within months. Other defense projects included gyroscope-based and other complex control systems for gun and bombsights and inertial navigation under Charles Stark Draper's Instrumentation Laboratory, the development of a digital computer for flight simulations under Project Whirlwind, and high-speed and high-altitude photography under Harold Edgerton. By the end of the war, MIT employed a staff of over 4,000 (including more than a fifth of the nation's physicists) and was the nation's single largest wartime R&D contractor.

In the post-war years, government-sponsored research such as <u>SAGE</u> and guidance systems for <u>ballistic missiles</u> and <u>Project Apollo</u> combined with surging student enrollments under the <u>G.I. Bill</u> contributed to a rapid growth in the size of the Institute's research staff and physical plant as well as placing an increased emphasis on graduate education. The profound changes that occurred at MIT between 1930 and 1957 included the doubling of its faculty and a quintupling of its graduate student population. These changes were significantly guided and shaped by the institution-building strategies of <u>Karl Taylor Compton</u>, president of MIT between 1930 and 1948, <u>James Rhyne Killian</u>, president from 1948 to 1957, and <u>Julius Adams Stratton</u>, chancellor from 1952 to 1957.

While the school mainly served the needs of industrial patrons in the 1920s, by the 1950s it had gained considerable autonomy from industrial corporations while attracting new patrons and building a close relationship with philanthropic foundations and the federal government. As the <u>Cold War</u> and <u>Space Race</u> intensified and concerns about the <u>technology gap</u> between the U.S. and the Soviet Union grew more

pervasive throughout the 1950s and 1960s, MIT's involvement in the <u>military-industrial complex</u> was a source of pride on campus.

◎麻省理工學院 Recent history (1966–present)



The MIT Media Lab houses researchers developing novel uses of computer technology. Shown here is the 1982 building, designed by I.M. Pei, with an extension (background) designed by Fumiko Maki and opened in March 2010.

Following a comprehensive review of the undergraduate curriculum in 1949 and the successive appointments of more <u>humanistically</u>

<u>oriented</u> Presidents <u>Howard W. Johnson</u> and <u>Jerome Wiesner</u> between 1966 and 1980, MIT greatly expanded its programs in the humanities, arts, and social sciences. Previously marginalized faculties in the areas of economics, management, political science, and linguistics emerged into cohesive and assertive

departments by attracting respected professors, launching competitive graduate programs, and forming into the <u>School of Humanities</u>, Arts, and <u>Social Sciences</u> and the <u>MIT Sloan School of Management</u> in 1950 to compete with the powerful Schools of <u>Science</u> and <u>Engineering</u>.

In late 1960s and early 1970s, student and faculty activists protested against the <u>Vietnam War</u> and MIT's <u>defense research</u>. The <u>Union of Concerned Scientists</u> was founded on March 4, 1969 during a meeting of faculty members and students seeking to shift the emphasis on military research towards environmental and social problems. Although MIT ultimately divested itself from the <u>Instrumentation Laboratory</u> and moved all classified research off-campus to the <u>Lincoln Laboratory</u> facility in 1973 in response to



the protests, the student body, faculty, and administration remained comparatively unpolarized during the tumultuous era.

In addition to developing the predecessors to modern computing and <u>networking</u> technologies, students, staff, and faculty members at the <u>Project MAC</u>, <u>Artificial Intelligence Laboratory</u>, and <u>Tech Model Railroad Club</u> wrote some of the earliest interactive <u>computer games</u> like <u>Spacewar!</u> and created much of modern <u>hacker slang</u>. Several major computer-related organizations have originated at MIT since the 1980s; <u>Richard Stallman</u>'s <u>GNU Project</u> and the subsequent Free Software Foundation were founded in the mid-1980s at the AI Lab, the MIT Media Lab was founded in 1985 by Nicholas Negroponte and Jerome Wiesner to promote research into novel uses of computer technology, the World Wide Web Consortium standards organization was founded at the Laboratory for Computer Science in 1994 by Tim Berners-Lee, the

OpenCourseWare project has made course materials for over 1,800 MIT classes available online free of charge since 2002, and the One Laptop per Child initiative to expand computer education and connectivity to children worldwide was launched in 2005. Upon taking office in 2004, President Hockfield launched an Energy Research Council to investigate how MIT can respond to the interdisciplinary challenges of increasing global energy consumption.

MIT was named a sea-grant college in 1976 to support its programs in oceanography and marine sciences and was named a space-grant college in 1989 to support its aeronautics and astronautics programs. Despite diminishing government financial support over the past quarter century, MIT launched several development campaigns to significantly expand the campus: new dormitories and athletics buildings on west campus, the Tang Center for Management Education, several buildings in the northeast corner of campus supporting research into biology, brain and cognitive sciences, genomics, biotechnology, and cancer research, and a number of new "backlot" buildings on Vassar Street including the Stata Center. Construction on campus has recently concluded an expansion of the Media Lab, the Sloan's eastern campus, and graduate residences in the northwest.

Are you familiar with all of contents above? Let's take a quiz!!

1. Where is the MIT located?

How many departments the MIT have?

3. Why MIT is famous in the world?

◎自由女神像 Statue of Liberty

The Statue of Liberty (Liberty Enlightening the World, French: La Liberté éclairant le monde) is a colossal neoclassical sculpture on Liberty Island in New York Harbor, designed by Frédéric Bartholdi and dedicated on October 28, 1886. The statue, a gift to the United States from the people of France, is of a robed female figure representing Libert as, the Roman goddess of freedom, who bears a torch and a tabula ansata (a tablet evoking the law) upon which is inscribed the date of the American Declaration of Independence. A broken chain lies at her feet. The statue has become an icon of freedom and of the United States.

Bartholdi was inspired by French law professor and politician Édouard René de Laboulaye, who commented in 1865 that any monument raised to American independence would properly be a joint project of the French and American peoples. Due to the troubled political situation in France, work on the statue did not commence until the early 1870s. In 1875, Laboulaye proposed that the French finance the statue and the Americans provide the pedestal and the site. Bartholdi completed both the head and the torch-bearing arm before the statue was fully designed, and these pieces were exhibited for publicity at international expositions. The arm was displayed in New York's Madison Square Park from 1876 to 1882. Fundraising proved difficult, especially for the Americans, and by 1885 work on the pedestal was threatened due to lack of funds. Publisher Joseph Pulitzer of the World initiated a drive for donations to complete the project, and the campaign inspired over 120,000 contributors, most of whom gave less than a dollar. The statue was constructed in France, shipped overseas in crates, and assembled on the completed pedestal on what was then called Bedloe's Island. The statue's completion was marked by New York's first ticker-tape parade and a dedication ceremony presided over by President Grover Cleveland.

The statue was administered by the United States Lighthouse Board until 1901 and then by the Department of War; since 1933 it has been maintained by the National Park Service. The statue was closed for renovation for much of 1938. In the early 1980s, it was found to have deteriorated to such an extent that a major restoration was required. While the statue was closed from 1984 to 1986, the torch and a large part of the internal structure were replaced. After the September 11 attacks in 2001, it was closed for reasons of safety and security; the pedestal reopened in 2004 and the statue in 2009, with limits on the number of visitors allowed to ascend to the crown. The statue is scheduled to close for up to a year beginning in late 2011 so that a secondary staircase can be installed. Public access to the balcony surrounding the torch has been barred for safety reasons since 1916.

◎自由女神像 Statue of Liberty-Design and construction

Origin

The origin of the Statue of Liberty project is generally traced to a comment made by French law professor and politician Édouard René de Laboulaye in mid-1865. In after-dinner conversation at his home near

<u>Versailles</u>, Laboulaye, an ardent supporter of the <u>Union</u> in the <u>American Civil War</u>, stated, "If a monument should rise in the United States, as a memorial to their independence, I should think it only natural if it were built by united effort—a common work of both our nations."



← Bartholdi's design patent

Laboulaye's comment was not intended as a proposal, but it inspired a young sculptor, <u>Frédéric Bartholdi</u>, who was present at the dinner. Given the repressive nature of the regime of <u>Napoleon III</u>, Bartholdi took no immediate action on the idea except to discuss it with Laboulaye. Instead, Bartholdi approached <u>Ismail Pasha</u>, <u>Khedive</u> of <u>Egypt</u>, with a plan to build a huge <u>lighthouse</u> in the form of an ancient Egyptian female *fellah* or peasant, robed and holding a torch aloft, at the northern entrance to the <u>Suez Canal</u> in <u>Port Said</u>. Sketches and models were made of the proposed work, though it was never erected. There was a classical precedent for the Suez proposal, the <u>Colossus of Rhodes</u>: a bronze statue of the Greek god of the sun, <u>Helios</u>. This statue is believed to

have been over 100 feet (30 m) high, and it similarly stood at a harbor entrance and carried a light to guide ships.

The American project was further delayed by the <u>Franco-Prussian War</u>, in which Bartholdi served as a major of militia. In the war, Napoleon III was captured and deposed. Bartholdi's home province of <u>Alsace</u> was lost to the <u>Prussians</u>, and a <u>more liberal republic</u> was installed in France. As Bartholdi had been planning a trip to the United States, he and Laboulaye decided the time was right to discuss the idea with influential Americans. In June 1871, Bartholdi crossed the Atlantic, with <u>letters of introduction</u> signed by Laboulaye. Arriving at <u>New York Harbor</u>, Bartholdi fixed on <u>Bedloe's Island</u> as a site for the statue, struck by the fact that vessels <u>arriving in New York</u> had to sail past it. He was delighted to learn that the island was owned by the <u>United States government—it</u> had been ceded by the <u>New York State Legislature</u> in 1800 for harbor defense. It was thus, as he put it in a letter to Laboulaye, "land common to all the states." As well as meeting many influential New Yorkers, Bartholdi visited President <u>Ulysses S. Grant</u>, who assured him that it would not be difficult to obtain the site for the statue. Bartholdi crossed the United States twice by rail, and met many Americans whom he felt would be sympathetic to the project. However, he remained concerned that popular opinion on both sides of the Atlantic was insufficiently supportive of the proposal, and he and Laboulaye decided to wait before mounting a public campaign.



← Bartholdi's *Lion of Belfort*

Bartholdi had made a first model of his concept in 1870. The son of a friend of Bartholdi's, American artist <u>John La Farge</u>, later maintained that Bartholdi made the first sketches for the statue during his U.S. visit at La Farge's Rhode Island studio. Bartholdi continued to

develop the concept following his return to France. He also worked on a number of sculptures designed to bolster French patriotism after the defeat by the Prussians. One of these was the <u>Lion of Belfort</u>, a <u>monumental sculpture</u> carved in sandstone below the fortress of <u>Belfort</u>, which during the war had resisted a <u>Prussian siege</u> for over three months. The defiant lion, 73 feet (22 m) long and half that in height, displays an emotional quality characteristic of <u>Romanticism</u>, which Bartholdi would later bring to the Statue of Liberty.

◎自由女神像 Statue of Liberty- Design, style, and symbolism



← Detail from a fresco by Constantino

Brumidi in the U.S. Capitol in Washington,
D.C., showing two early symbols of
America: Columbia (left) and the Indian
princess

Bartholdi and Laboulaye considered how best to express the idea of American liberty. In early American history, two female figures were frequently used as cultural symbols of the nation. One, <u>Columbia</u>, was seen as an embodiment of the United States in the manner that <u>Britannia</u> was identified with the United Kingdom and <u>Marianne</u> came to represent France. Columbia had supplanted the earlier figure of an <u>Indian princess</u>, which

had come to be regarded as uncivilized and derogatory toward Americans. The other significant female icon in American culture was a representation of Liberty, derived from <u>Libertas</u>, the <u>goddess of freedom</u> widely worshipped in <u>ancient Rome</u>, especially among <u>emancipated slaves</u>. A Liberty figure adorned most <u>American coins</u> of the time, and representations of Liberty appeared in popular and civic art, including <u>Thomas Crawford</u>'s <u>Statue of Freedom</u> (1863) atop the dome of the <u>United States Capitol Building</u>. The figure of Liberty was also depicted on the <u>Great Seal of France</u>.

Artists of the 18th and 19th centuries striving to evoke <u>republican ideals</u> commonly used representations of Liberty. However, Bartholdi and Laboulaye avoided an image of revolutionary liberty such as that depicted

in <u>Eugène Delacroix</u>'s famed <u>Liberty Leading the People</u> (1830). In this painting, which commemorates France's <u>Revolution of 1830</u>, Liberty leads an armed mob over the bodies of the fallen. Laboulaye had no sympathy for revolution, and so Bartholdi's figure would be fully dressed in flowing robes. Instead of the impression of violence in the Delacroix work, Bartholdi wished to give the statue a peaceful appearance and chose a torch, representing progress, for the figure to bear.

Crawford's statue was designed in the early 1850s. It was originally to be crowned with a *pileus*, the cap given to emancipated slaves in ancient Rome. Secretary of War Jefferson Davis, a Southerner who would later serve as president of the Confederate States of America, was concerned that the *pileus* would be taken as an <u>abolitionist</u> symbol. He ordered that it be changed to a helmet. Delacroix's figure wears a *pileus*, and Bartholdi at first considered placing one on his figure as well. Instead, he used a <u>diadem</u>, or crown, to top its head In so doing, he avoided a reference to Marianne, who invariably wears a *pileus*. The seven rays form a halo or <u>aureole</u>. They evoke the sun, the seven seas, and the seven continents, and represent another means, besides the torch, whereby Liberty enlightens the world.

Bartholdi's early models were all similar in concept: a female figure in neoclassical style representing liberty, wearing a <u>stola</u> and <u>pella</u> (gown and cloak, common in depictions of Roman goddesses) and holding a torch aloft. The face was modeled after that of Charlotte Beysser Bartholdi, the sculptor's mother. He designed the figure with a strong, uncomplicated silhouette, which would be set off well by its dramatic harbor placement and allow passengers on vessels entering <u>New York Bay</u> to experience a changing perspective on the statue as they proceeded toward Manhattan. He gave it bold classical contours and applied simplified modeling, reflecting the huge scale of the project and its solemn purpose. Bartholdi wrote of his technique:



← Thomas Crawford's Statue of Freedom

The surfaces should be broad and simple, defined by a bold and clear design, accentuated in the important places. The enlargement of the details or their multiplicity is to be feared. By exaggerating the forms, in order to render them more clearly visible, or by enriching them with details, we would destroy the proportion of the work. Finally, the model, like the design, should have a summarized character, such as one would give to a rapid sketch. Only it is necessary that this character should be the product of volition and study, and that the artist, concentrating his knowledge, should find the form and the line in its greatest simplicity.

Aside from the change in the statue's headgear, there were other design alterations as the project evolved. Bartholdi considered having Liberty hold a

broken chain, but decided this would be too divisive in the days after the Civil War. The erected statue does rise over a broken chain, half-hidden by her robes and difficult to see from the ground. Bartholdi was

initially uncertain of what to place in Liberty's left hand; he settled on a <u>tabula ansata</u>, a keystone-shaped tabletused to evoke the concept of law. Though Bartholdi greatly admired the <u>United States Constitution</u>, he chose to inscribe "JULY IV MDCCLXXVI" on the tablet, thus associating the date of the country's <u>Declaration of Independence</u> with the concept of liberty.

Consultations with the metalwork foundry Gaget, Gauthier & Co. led Bartholdi to conclude that the skin should be made of copper sheets, beaten to shape by the <u>repoussé</u> method. An advantage of this choice was that the entire statue would be light for its volume—the copper need be only .094 inches (2.4 mm) thick. He decided on a height of 151 feet (46 m) for the statue, double that of Italy's <u>Colosso di San Carlo Borromeo</u> and <u>the German statue</u> of <u>Arminius</u>, both made with the same method. Bartholdi interested a former teacher of his, architect <u>Eugène Viollet-le-Duc</u>, in the project. Viollet-le-Duc planned to construct a brick <u>pier</u> within the statue, to which the skin would be anchored.

Are you familiar with all of contents above? Let's take a quiz!!

1.	Where is the statue of liberty located? In which island?
2.	Which country sent the statue of liberty to United States as a gift?
3.	Why the designer of sculpture used a woman representing the symbol of freedom?
4.	Who is the designer of statue of liberty?

- 5. The first proposal of making this sculpture was?
- 6. Briefing describes the creative process for statue of liberty.

◎華爾街 Wall Street

Wall Street refers to the financial district of New York City, named after and centered on the eight-block-long street running from Broadway to South Street on the East River in lower Manhattan. Over time, the term has become a metonym for the financial markets of the United States as a whole, or signifying New York-based financial interests. It is the home of the New York Stock Exchange, the world's largest stock exchange by market capitalization of its listed companies. Several other major exchanges have or had



headquarters in the Wall Street area, including NASDAQ, the New York Mercantile Exchange, the New York Board of Trade, and the former American Stock Exchange. Anchored by Wall Street, New York City is one of the world's principal financial centers.

◎華爾街 Wall Street-Wall Street in the New York economy

Finance professor Charles R. Geisst wrote that the exchange has become "inextricably intertwined into New York's economy". Wall Street pay, in terms of salaries and bonuses and taxes, is an important part of the economy of New York City, the tri-state metropolitan area, and the United States. In 2008, after a downturn in the stock market, the decline meant \$18 billion less in taxable income, with less money available for "apartments, furniture, cars, clothing and services". A falloff in Wall Street's economy could have "wrenching effects on the local and regional economies".



Estimates vary about the number and quality of financial jobs in the city. One estimate was that Wall Street firms employed close to 200,000 persons in 2008. Another estimate was that in 2007, the financial services industry which had a \$70 billion profit became 22 percent of the city's revenue. Another estimate (in 2006) was that the financial services industry makes up 9% of the city's work force and 31% of the tax base. An additional estimate (2007) from Steve Malanga of the Manhattan Institute was that the securities industry accounts for 4.7 percent of the jobs in New York City but 20.7 percent of its wages, and he estimated there were 175,000 securities-industries jobs in New York (both Wall Street area and midtown) paying an average

of \$350,000 annually. Between 1995 and 2005, the sector grew at an annual rate of about 6.6% annually, a respectable rate, but that other financial centers were growing faster. Another estimate (2008) was that Wall Street provided a fourth of all personal income earned in the city, and 10% of New York City's tax revenue.

The seven largest Wall Street firms in the first decade of the 21st century were Bear Stearns, JPMorgan Chase, Citigroup Incorporated, Goldman Sachs, Morgan Stanley, Merrill Lynch and Lehman Brothers. During the recession of 2008–2010, many of these firms went out of business or were bought up at firesale prices by other financial firms. In 2008, Lehman filed for bankruptcy, Bear Stearns was bought up by JP Morgan Chase with blessing by the U.S. government, and Merrill Lynch was bought up by Bank of America. These failures marked a catastrophic downsizing of Wall Street as the financial industry goes through restructuring and change. Since New York's financial industry provides almost one-fourth of all income produced in the city, and accounts for 10% of the city's tax revenues and 20% of the state's, the downturn has had huge repercussions for government treasuries. New York's mayor Michael Bloomberg reportedly over a four year period dangled over \$100 million in tax incentives to persuade Goldman Sachs to build a 43-story headquarters in the financial district near the destroyed World Trade Center site. In 2009, things looked somewhat gloomy, with one analysis by the Boston Consulting Group suggesting that 65,000 jobs had been permanently lost because of the downturn. But there were signs that Manhattan property prices were rebounding with price rises of 9% annually in 2010, and bonuses were being paid once more, with average bonuses over \$124,000 in 2010. The U.S. banking industry employes 1.86 million people and earned profits of \$22 billion in the second quarter of 2010, up substantially from previous quarters.

Are you familiar with all of contents above? Let's take a quiz!!

1. Where is the Wall Street located?

2. The largest stock exchange is in?

◎三一教堂 Trinity Church

<u>Trinity Church</u> (also known as <u>Trinity Wall Street</u>) at 79 Broadway, Lower Manhattan, is a historic, active parish church in the *Diocese of New York*. *Trinity Church* is at the intersection of Wall Street and Broadway, New York.

◎三一教堂 Trinity Church-History and architecture

In <u>1696</u>, <u>Governor Benjamin Fletcher</u> approved the purchase of land in Lower Manhattan by the <u>Church of England</u> community for construction of a new church. The parish received its charter from <u>King William III of England</u> on May 6, 1697. Its land grant specified an annual rent of sixty bushels of wheat. The first rector was <u>William Vesey</u> (for whom nearby <u>Vesey Street</u> is named), a protege of <u>Increase Mather</u>, who served for 49 years until his death in 1746.

◎三一教堂 Trinity Church-First Trinity Church

The first Trinity Church building, a modest rectangular structure with a gambrel roof and small porch, was constructed in 1698. According to historical records, the infamous privateer Captain William Kidd lent the runner and tackle from his ship for hoisting the stones.

Queen Anne of England increased the parish's land holdings to 215 acres (870,000 m²) in 1705. Later, in 1709, William Huddleston founded Trinity School as the Charity School of the church, and classes were originally held in the steeple of the church. In 1754, King's College (now Columbia University) was chartered by King George II of Great Britain and instruction began with eight students in a school building near the church.

During the American Revolutionary War the city became the British military and political base of operations



in North America, following the departure of General George Washington and the Continental Army shortly after Battle of Long Island and subsequent local defeats. Under British occupation clergy were required to be Loyalists, while the parishioners included some members of the revolutionary New York Provincial Congress, as well as the First and Second Continental Congresses.

The church was destroyed in a fire, which started in the Fighting Cocks

Tavern destroyed nearly 500 buildings and houses and left thousands of

New Yorkers homeless. Six days later, most of the city's volunteer firemen

followed General Washington north.

The Rev. Samuel Provoost, was appointed Rector of Trinity (1784-1800) in 1784 and the New York State Legislature ratified the charter of Trinity Church, deleting the provision that asserted its loyalty to the King of England. Whig patriots were appointed as vestrymen. In 1787, Provoost was consecrated as the first Bishop of the newly formed Diocese of New York. Following his 1789 inauguration at Federal Hall, George Washington attended Thanksgiving service, presided over by Bishop Provoost, at St. Paul's Chapel, a chapel of the Parish of Trinity Church. He continued to attend services there until the second Trinity Church was finished in 1790. St. Paul's Chapel is currently part of the Parish of Trinity Church and is the oldest public building in continuous use in New York City.

◎三一教堂 Trinity Church-Second Trinity Church and Third Trinity Church

Construction on the second Trinity Church building began in 1788; it was consecrated in 1790. The structure was torn down after being weakened by severe snows during the winter of 1838–39.

Third Trinity Church

The third and current Trinity Church was finished in 1846 and at the time of its completion its 281-foot (86 m) spire and cross was the highest point in New York until being surpassed in 1890 by the New York World Building.

In 1843, Trinity Church's expanding parish was divided due to the burgeoning cityscape and to better serve the needs of its parishioners. The newly formed parish would build <u>Grace Church</u>, to the north on Broadway at 10th street, while the original parish would re-build Trinity Church, the structure that stands today. Both Grace and Trinity Churches were completed and consecrated in 1846.

In 1876-1877 a <u>reredos</u> and altar was erected in memory of <u>William Backhouse Astor, Sr.</u>, to the designs of architect <u>Frederick Clarke Withers</u>.



Architectural historians consider the present, 1846 Trinity Church building, designed by architect Richard Upjohn, a classic example of Gothic Revival architecture. In 1976 the United States Department of the Interior designated Trinity Church a National Historic Landmark because of its architectural significance and its place within the history of New York City. [2][5][6]

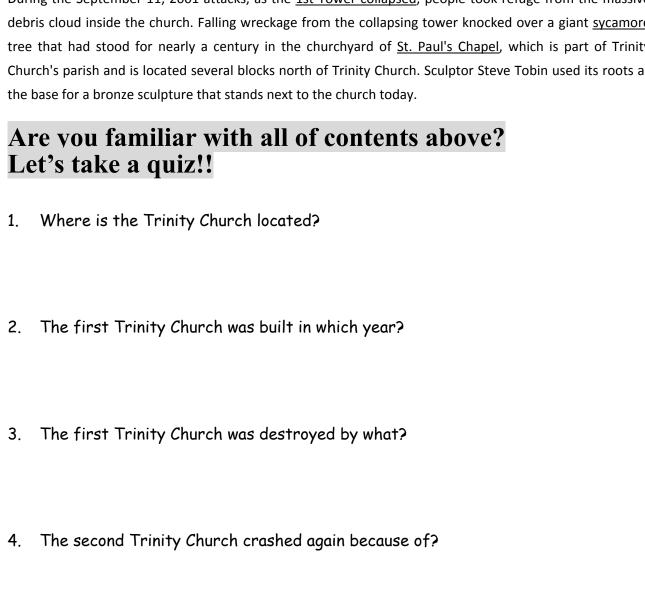
When the Episcopal Bishop of New York consecrated Trinity Church on Ascension Day May 1, 1846, its soaring Neo-Gothic spire, surmounted by a gilded cross, dominated the skyline of lower Manhattan. Trinity was a

welcoming beacon for ships sailing into New York Harbor.

On July 9, 1976 Queen Elizabeth II of the United Kingdom visited Trinity Church. Vestrymen presented her with a symbolic "back rent" of 279 peppercorns. Thereby, in 1697, King William III gave Trinity Church a charter that called for the parish to pay an annual rent of one peppercorn to the crown. Since 1993, Trinity Church has hosted the graduation ceremonies of the High School of Economics and Finance. The school is located on Trinity Place, a few blocks away from the church.

Tree Sculpture at Trinity Church, made out of giant sycamore destroyed in 9-11

During the September 11, 2001 attacks, as the 1st Tower collapsed, people took refuge from the massive debris cloud inside the church. Falling wreckage from the collapsing tower knocked over a giant sycamore tree that had stood for nearly a century in the churchyard of St. Paul's Chapel, which is part of Trinity Church's parish and is located several blocks north of Trinity Church. Sculptor Steve Tobin used its roots as the base for a bronze sculpture that stands next to the church today.



5. When was the Third Trinity Church finished? 6. The designer of Third Trinity Church is?

7. Describe the architecture and style of Third Trinity Church.

◎古根漢博物館 Solomon R. Guggenheim Museum



← Guggenheim Museum exterior after the 3-year renovation

Solomon R. Guggenheim Museum (often referred to as "The Guggenheim") is a well-known museum located on the Upper East Side of Manhattan in New York City, United States. It is the permanent home to a renowned collection of Impressionist, Post-Impressionist, early Modern, and

<u>contemporary art</u> and also features special exhibitions throughout the year. <u>Designed by Frank Lloyd</u> Wright, it is one of the 20th century's most important architectural landmarks.

The museum opened on October 21, 1959, and was the second museum opened by the <u>Solomon R. Guggenheim Foundation</u>; from 2005 to 2008 it underwent an extensive renovation.

◎古根漢博物館 Exterior restoration

Between September 2005 and July 2008, the Guggenheim Museum underwent a significant exterior restoration.

In the first phase of this project, a team of restoration architects, structural engineers, and architectural conservators worked together to create a comprehensive assessment of the building's current condition that determined the structure to be fundamentally sound. This initial condition assessment included:

- the removal of 11 coats of paint from the original surface, revealing hundreds of cracks caused over the years, primarily from seasonal temperature fluctuations
- detailed monitoring of the movement of selected cracks over 17 months
- impact-echo technology, in which sound waves are sent into the concrete and the rebound is measured in order to locate voids within the walls
- extensive laser surveys of the exterior and interior surfaces, believed to be the largest laser model ever compiled
- core drilling to gather samples of the original concrete and other construction materials
- testing of potential repair materials.

Much of the interior of the building was restored during the 1992 renovation and addition by Gwathmey Siegel and Associates Architects. The 2005-2008 restoration primarily addresses the exterior of the original building and the infrastructure. This includes the skylights, windows, doors, concrete and gunite facades and exterior sidewalk, as well as the climate-control. The goal will be to preserve as much significant historical fabric of the Solomon R. Guggenheim Museum as possible, while accomplishing necessary repairs and attaining a suitable environment for the building's continuing use as a museum.

On September 22, 2008, friends and supporters of the Guggenheim gathered in New York to mark the completion of the 3-year renovation of the Frank Lloyd Wright-designed Museum. New York City Mayor Michael R. Bloomberg officiated at the celebration that culminated, just after sunset, with the premiere of artist Jenny Holzer's tribute For the Guggenheim, a work commissioned in honor of Peter B. Lewis, who was a major benefactor in the Museum restoration project. Other supporters of the \$29 million dollar restoration included the Board of Trustees of the Solomon R. Guggenheim Foundation, and the Department of Cultural Affairs of the City of New York. Additional support was provided by the State of New York and MAPEI Corporation. The museum was registered as a National Historic Landmark on October 6, 2008.



◎古根漢博物館 Significance in popular

culture

← The Guggenheim interior

The building has become a cultural icon and can be seen widely throughout popular culture. It is featured

in <u>Matthew Barney</u>'s <u>The Cremaster Cycle</u>, <u>Bye Bye Birdie</u>, <u>Men in Black</u>, <u>When in Rome</u>, <u>Downtown 81,Uqly</u> <u>Betty</u> and prominently in <u>The International</u>, where a major shootout occurs in the museum. (In fact, a life-size replica of the museum was built for this scene.) The movie <u>Mr. Popper's Penguins</u> also features a scene where the penguins surf on ice water spilled on the floor, during a social event being held in the

museum. The <u>New Yorker</u> magazine has included the museum multiple times on its cover and in various cartoons.

Are you familiar with all of contents above? Let's take a quiz!!

1. The Solomon R. Guggenheim Museum has exclusive external looks, who is the designer of this architecture?

◎大都會博物館-Metropolitan Museum of Art



Metropolitan Museum of Art (colloquially The Met) is an art museum on the eastern edge of Central Park, along "Museum Mile" in New York City, United States. Its permanent collection contains more than two million works of art, divided into nineteen curatorial departments. The main building, often called "the Met", is one of the world's largest art galleries; there is also a much smaller second location, at "The Cloisters", in Upper Manhattan, which features medieval art.

Represented in the permanent collection are works of art from classical antiquity and Ancient Egypt, paintings and sculptures from nearly all the European masters, and an extensive collection of American and modern art. The Met also maintains extensive holdings of African, Asian, Oceanic, Byzantine, and

<u>Islamic</u> art. The museum is also home to encyclopedic collections of <u>musical instruments</u>, costumes and accessories, and antique <u>weapons</u> and <u>armor</u> from around the world. Several notable interiors, ranging from 1st-century Rome through modern American design, are permanently installed in the Met's galleries.

The Metropolitan Museum of Art was founded in 1870 by a group of American citizens. The founders included businessmen and financiers, as well as leading artists and thinkers of the day, who wanted to open a museum to bring art and art education to the American people. It opened on February 20, 1872, and was originally located at 681 Fifth Avenue.



As of 2007, the Met measures almost $\frac{1}{4}$ -mile (400 m) long and occupies more than 2,000,000 square feet (190,000 m²).

◎大都會博物館-Drawings and prints

Melencolia I by Albrecht Dürer→

Though other departments contain significant numbers of drawings and prints, the Drawings and Prints department specifically concentrates on North American pieces and western European works produced after the Middle Ages. Currently, the Drawings and Prints collection contains more than 11,000 drawings, 1.5 million prints, and twelve thousand illustrated books. The collection has been steadily growing ever since the first bequest of 670 drawings donated to the museum by Cornelius Vanderbilt in 1880. The great masters of European painting, who produced many more sketches and drawings than actual paintings, are extensively represented in the Drawing and Prints collection. The department's holdings contain major drawings by Michelangelo, Leonardo da Vinci, and Rembrandt, as well as prints and etchings by Van Dyck, Dürer, and Degas among many others.

Are you familiar with all of contents above? Let's take a quiz!!

- What kind of collection you may see in Metropolitan Museum?
- 2. When the Metropolitan Museum was founded?
- 3. Even the Metropolitan Museum contains a lot of drawings and prints, however, specifically concentrates are?
- 4. The most impressive drawing or print to you in Metropolitan Museum is?

◎帝國大廈 Empire State Building



<u>States</u>, at the intersection of Fifth Avenue and West 34th Street. It is 1,250 ft (381 meters) tall. Its name is derived from the nickname for New York, the Empire State. It stood as the world's tallest building for 40 years, from its completion in 1931 until construction of the World Trade Center's North Tower was completed in 1972. Following the destruction of the World Trade Center in 2001, the Empire State Building once again became the tallest building in New York City.

The Empire State Building has been named by the American Society of Civil Engineers as one of the Seven Wonders of the Modern World. The building and its street floor interior are designated landmarks of the New York City Landmarks Preservation Commission, and confirmed

by the New York City Board of Estimate. It was designated as a National Historic Landmark in 1986. In 2007, it was ranked number one on the List of America's Favorite Architecture according to the AIA. The building is owned and managed by W&H Properties. The Empire State Building is currently the third tallest skyscraper in the United States (after the Willis Tower and Trump International Hotel and Tower, both in Chicago), and the 15th tallest in the world. It is also the fourth tallest freestanding structure in the Americas. The Empire State Building is currently undergoing a \$550 million renovation, with \$120million utilized in an effort to transform the building into a more energy efficient and eco-friendly structure.

◎帝國大廈 Empire State Building-History

The Empire State Building was designed by William F. Lamb from the architectural firm Shreve, Lamb and Harmon, which produced the building drawings in just two weeks, using its earlier designs for the Reynolds Building in Winston-Salem, North Carolina, and the Carew Tower in Cincinnati, Ohio (designed by the architectural firm W.W. Ahlschlager & Associates) as a basis. Every year the staff of the Empire State Building sends a Father's Day card to the staff at the Reynolds Building in Winston-Salem to pay homage to its role as predecessor to the Empire State Building. The building was designed from the top down. The general contractors were The Starrett Brothers and Eken, and the project was financed primarily by John J. Raskob and Pierre S. du Pont. The construction company was chaired by Alfred E. Smith, a former Governor of New York and James Farley's General Builders Supply Corporation supplied the building materials. John W. Bowser was project construction superintendent.

Excavation of the site began on January 21, 1930, and construction on the building itself started symbolically on March 17—St. Patrick's Day—per Al Smith's influence as Empire State, Inc. president. The project involved 3,400 workers, mostly immigrants from Europe, along with hundreds of Mohawk iron workers, many from the Kahnawake reserve near Montreal. According to official accounts, five workers died during the construction. Governor Smith's grandchildren cut the ribbon on May 1, 1931. Lewis Wickes Hine's photography of the construction provides not only invaluable documentation of the construction, but also a glimpse into common day life of workers in that era.



←A worker bolts beams during construction; the Chrysler Building can be seen in the background.



<u>←The Empire State Building under</u> construction, 1931.

The construction was part of an intense competition in New York for the title of "world's tallest building". Two other projects fighting for the title, 40 Wall Street and the Chrysler Building, were still under construction when work began on the Empire State Building. Each held the title for less than a year, as the Empire State Building surpassed them upon its completion, just 410 days after construction commenced. The building was officially opened on May 1, 1931 in dramatic fashion, when United States President Herbert Hoover turned on the building's lights with the push of a button from Washington, D.C. Coincidentally, the first use of tower lights atop the Empire State Building, the following year, was for the purpose of signaling the

victory of Franklin D. Roosevelt over Hoover in the presidential election of November 1932.

◎帝國大廈 Empire State Building- Architecture



←Street level view of the Empire State Building

The Empire State Building rises to 1,250 ft (381 m) at the 102nd floor, and including the 203 ft (62 m) pinnacle, its full height reaches 1,453 ft– $8^9/_{16}$ in (443.09 m). The building has 85 stories of commercial and office space representing 2,158,000 sq ft (200,500 m²). It has an indoor and outdoor observation deck on the 86th floor. The remaining 16 stories represent the Art Deco tower, which is capped by a 102nd-floor observatory. Atop the tower is the 203 ft (62 m) pinnacle, much of which is covered by broadcast antennas, with a lightning rod at the very top.

The Empire State Building was the first building to have more than 100 floors. It has 6,500 <u>windows</u> and 73 <u>elevators</u>, and there are 1,860 steps from street level to the 102nd floor. It has a total floor area of

2,768,591 sq ft (257,211 m²);



←The Empire State Building as seen from Brooklyn

The base of the Empire State Building is about 2 acres (8,094 m²). The building houses 1,000 businesses, and has its own zip code, 10118. As of 2007, approximately 21,000 employees work in the building each day, making the Empire State Building the second-largest single office complex in America, after the Pentagon. The building was completed in one year and 45 days. Its original 64 elevators are located in a central core; today, the Empire State Building has 73 elevators in all, including service elevators. It takes less than one minute by elevator to get to the 80th floor where visitors can take another elevator or stairs to the 86th floor, where

an observation deck is located.) The building has 70 mi (113 km) of pipe, 2,500,000 ft (760,000 m) of electrical wire, and about 9,000 faucets. It is heated by low-pressure steam; despite its height, the building only requires between 2 and 3 psi (14 and 21 kPa) of steam pressure for heating. It weighs approximately 370,000 short tons (340,000 t). The exterior of the building was built using <u>Indiana limestone</u> panels.

←The Empire State Building cost \$40,948,900 to build.





Are you familiar

WA series of <u>setbacks</u> causes the building to taper with height.

Unlike most of today's skyscrapers, the Empire State Building features an art deco design, typical of pre–World War II architecture in New York. The modernistic stainless steel canopies of the

entrances on 33rd and 34th Streets lead to two story-high corridors around the elevator core, crossed by stainless steel and glass-enclosed bridges at the second-floor level. The elevator core contains 67 elevators.

The lobby is three stories high and features an aluminum relief of the skyscraper without the antenna, which was not added to the spire until 1952. The north corridor contains eight illuminated panels, created by Roy Sparkia and Renée Nemorov in 1963, depicting the building as the <u>Eighth Wonder of the World</u>, alongside the traditional seven.

Long-term forecasting of the life cycle of the structure was implemented at the design phase to ensure that the building's future intended uses were not restricted by the requirements of previous generations. This is particularly evident in the over-design of the building's electrical system.

ith all of contents above? Let's take a quiz!!

- 1. The highest building in New York City is? How tall it is?
- 2. When the Empire State Building was completed?
- How much the Empire State Building was cost?
- 4. Who is the designer of Empire State Building?

◎時代廣場 Times Square

Times Square is a major commercial intersection in the borough of Manhattan in New York City, at the junction of Broadway and Seventh Avenue and stretching from West 42nd to West 47th Streets. The extended Times Square area, also called the Theatre District, consists of the blocks between Sixth and Eighth Avenues from east to west, and West 40th and West 53rd Streets from south to north, making up the western part of the commercial area of Midtown Manhattan.



Formerly named Longacre Square, Times Square was renamed in April 1904 after *The New York Times* moved its headquarters to the newly erected Times Building, which is now called One Times Square and is the site of the annual ball drop on New Year's Eve. Times Square, nicknamed "The Crossroads of the World" and "The Great White Way," has achieved the status of an iconic world landmark and is a symbol of New York City and the United States.

The northern triangle of Times Square is technically <u>Duffy Square</u>, dedicated in 1937 to Chaplain <u>Francis P. Duffy</u> of New York City's "<u>Fighting 69th</u>" Infantry Regiment; a memorial to Duffy is located there, along with a statue of <u>George M. Cohan</u>, and the <u>TKTS</u> discount theatre tickets booth. The stepped red roof of the TKTS booth also provides seating for various events. The Duffy Statue and the square were listed on the <u>National Register of Historic Places</u> in 2001

◎時代廣場 Times Square-History

←Broadway at 42nd St in 1880.

Before and after the American Revolution, the area

belonged to <u>John Morin Scott</u>, a general of the <u>New York militia</u> where he served under <u>George Washington</u>. Scott's <u>manor house</u> was at what is now 43rd Street, surrounded by countryside used for farming and breeding horses. In the first half of the 19th century it became one of the prized possessions of <u>John Jacob Astor</u>, who made a second fortune selling off <u>lots</u> to <u>hotels</u> and other real estate concerns as the city rapidly spread uptown.

In 1904, New York Times publisher Adolph S. Ochs moved the newspaper's operations to a new skyscraper on 42nd Street at Longacre Square. Ochs persuaded Mayor George B. McClellan, Jr. to construct a subway station there, and the area was renamed "Times Square" on April 8, 1904. Just

three weeks later, the first electrified advertisement appeared on the side of a bank at the corner of 46th Street and Broadway.

The New York Times, according to Nolan, moved to more spacious offices across Broadway in 1913. The old Times Building was later named the <u>Allied Chemical</u> Building. Now known simply as <u>One</u>



<u>Times Square</u>, it is famed for the <u>Times Square Ball</u> drop on its roof every <u>New Year's Eve</u>.

←A crowd outside *The New York Times* to follow the progress of the Jack Dempsey-Georges Carpentier fight in 1921.

Also in 1913, the Lincoln Highway Association, headed by entrepreneur <u>Carl G. Fisher</u>, chose the intersection of 42nd

Street and Broadway, at the southeast corner of Times Square, to be the Eastern Terminus of the <u>Lincoln Highway</u>, the first road across the United States, which originally spanned 3,389 miles (5,454 km) coast-to-coast through 13 states to its Western Terminus in <u>Lincoln Park</u> in San Francisco, California.

As the growth in New York City continued, Times Square quickly became a cultural hub full of theaters, music halls, and upscale hotels.

Times Square quickly became New York's <u>agora</u>, a place to gather to await great tidings and to celebrate them, whether a World Series or a presidential election

—<u>James Traub</u>, The Devil's Playground: A Century of Pleasure and Profit in Times Square

Celebrities such as <u>Irving Berlin</u>, <u>Fred Astaire</u>, and <u>Charlie Chaplin</u> were closely associated with Times Square in the 1910s and 1920s. During this period, the area was nicknamed <u>The Tenderloin</u>^[7] because it was supposedly the most desirable location in Manhattan. However, it was during this period that the area was



besieged by crime and corruption, in the form of gambling and prostitution; one case that garnered huge attention was the arrest and subsequent execution of police officer Charles Becker.

← The Hotel Astor c.1900–1910

The general atmosphere changed with the onset of the <u>Great Depression</u> in the 1930s. Times Square acquired a reputation as a dangerous <u>neighborhood</u> in the following decades. From

the 1960s to the early 1990s, the seediness of the area, especially due its go-go bars, sex shops, and adult theaters, became an infamous symbol of the city's decline.

In the 1980s, a commercial building boom began in the western parts of the Midtown as part of a long-term <u>development plan</u> developed under Mayor <u>Ed Koch</u> and <u>David Dinkins</u>. In the mid-1990s, Mayor <u>Rudolph Giuliani</u> (1994–2002) led an effort to "clean up" the area, increasing <u>security</u>, closing <u>pornographic</u> theaters, pressuring drug dealers and "<u>squeegee men</u>" to relocate, and opening more <u>tourist</u>-friendly <u>attractions</u> and <u>upscale</u> establishments. Advocates of the <u>remodeling</u> claim that the neighborhood is safer and cleaner. Detractors have countered that the changes have homogenized or "<u>Disneyfied</u>" the character of Times Square and have unfairly targeted lower-income New Yorkers from nearby neighborhoods such as Hell's Kitchen.

In 1990, the state of New York took possession of six of the nine historic theatres on 42nd Street, and the New 42nd Street non-profit organization was appointed to oversee their restoration and maintenance. The theatres underwent renovation for Broadway shows, conversion for commercial purposes, or demolition.

Are you familiar with all of contents above? Let's take a quiz!!

1. Where is the Times Square located?

2. Time Square formerly name was?

3. Describe the feeling when you see the Time Square.

◎中央公園 Central Park

Central Park is a public park in the center of <u>Manhattan</u> in <u>New York City</u>, <u>United States</u>. The park initially opened in 1857, on 843 acres (3.41 km²) of city-owned land. In 1858, <u>Frederick Law Olmsted</u> and <u>Calvert Vaux</u> won a design competition to improve and expand the park with a plan they entitled the *Greensward Plan*. Construction began the same year and was completed in 1873.

Designated a <u>National Historic Landmark</u> in 1963, the park is currently managed by the Central Park Conservancy under contract with the city government. The Conservancy is a nonprofit organization that contributes 85% of Central Park's \$25 million dollar annual budget, and employs 80% of the park's maintenance staff.

◎中央公園 Central Park-Central Park today

Central Park, which has been a <u>National Historic Landmark</u> since 1963, was designed by landscape designer and writer <u>Frederick Law Olmsted</u> and the English architect <u>Calvert Vaux</u> in 1858 after winning a design competition. They also designed <u>Brooklyn</u>'s <u>Prospect Park</u>.

The park, which receives approximately thirty-five million visitors annually, is the most visited <u>urban park</u> in the United States. It was opened on 770 acres (3.1 km²) of city-owned land and was expanded to 843 acres (3.41 km²; 1.317 sq mi). It is 2.5 miles (4 km) long between 59th Street (Central Park South) and 110th Street (Central Park North), and is 0.5 miles (0.8 km) wide between Fifth Avenue and Central Park West. It is similar in size to <u>San Francisco</u>'s <u>Golden Gate Park</u>, <u>Chicago</u>'s <u>Lincoln Park</u>, <u>Vancouver</u>'s <u>Stanley Park</u>, and <u>Munich</u>'s <u>Englischer Garten</u>.

Central Park is bordered on the north by West <u>110th Street</u>, on the south by West <u>59th Street</u>, on the west by <u>Eighth Avenue</u>, and on the east by <u>Fifth Avenue</u>. Along the park's borders however, these are known as <u>Central Park North</u>, <u>Central Park South</u>, and <u>Central Park West</u>, respectively. Only <u>Fifth Avenue</u> retains its name as it delineates the eastern border of the park.

The park is maintained by the Central Park Conservancy, a private, not-for-profit organization that manages the park under a contract with the New York City Department of Parks and Recreation, in which the president of the Conservancy is *ex officio* Administrator of Central Park.

Today, the conservancy employs four out of five maintenance and operations staff in the park. It effectively oversees the work of both the private and public employees under the authority of the Central Park administrator, (publicly appointed), who reports to the parks commissioner, conservancy's president. As of 2007, the conservancy had invested approximately \$450 million in the restoration and management of the park; the organization presently contributes approximately 85% of Central Park's annual operating budget of over \$25 million.



The system was functioning so well that in 2006 the conservancy created the Historic Harlem Parks initiative, providing horticultural and maintenance support and mentoring in Morningside Park, St. Nicholas Park, Jackie Robinson Park, and Marcus Garvey Park.

While foliage in much of the park appears natural, it is in fact almost entirely landscaped. The park contains several natural-looking lakes and ponds that have been created artificially, extensive <u>walking tracks</u>, bridle paths, two

<u>ice-skating</u> rinks (one of which is a <u>swimming pool</u> in July and August), the <u>Central Park Zoo</u>, th

The 6 miles (10 km) of drives within the park are used by joggers, bicyclists, skateboarders, and inline skaters, especially on weekends and in the evenings after 7:00 p.m., when automobile traffic is prohibited.

The real estate value of Central Park was estimated by the property appraisal firm, Miller Samuel, to be \$528,783,552,000 in December 2005.

As crime has declined in the park and in the rest of New York City, many negative perceptions have begun to wane. The park has its own <u>New York City Police Department</u> precinct (Central Park Precinct), which employs both regular police and auxiliary officers. In 2005, safety measures held the number of crimes in the park to fewer than one hundred per year (down from approximately 1,000 in the early 1980s). <u>New York City Parks Enforcement Patrol also patrols Central Park</u>.

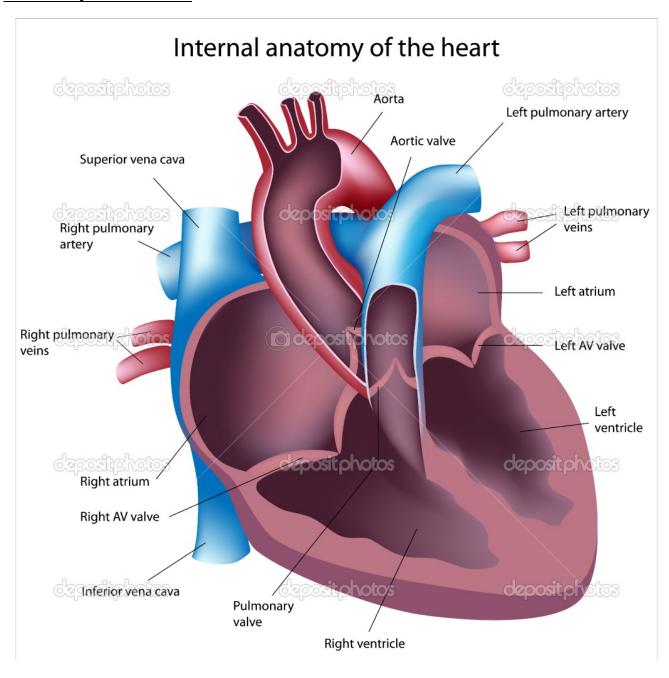


↑ Central Park is the most visited city park in the United States.

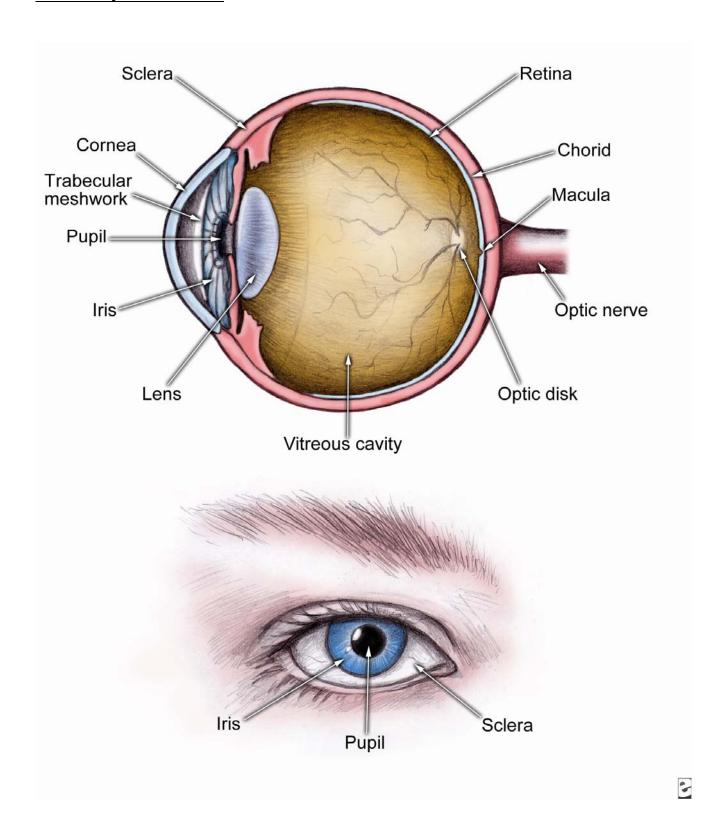
2013年明道中學芝加哥伊利諾理工大學科學營暨美東教育旅行 Are you familiar with all of contents above? Let's take a quiz!!

1.	Who was the designer of central park?
2.	The landmark park in New York City is?
3.	How many people will visit central park in annually?
4.	The major management of central park is which organization?
5.	The real estate value of Central Park was how much?
6.	New York is a most busy and crowed city in the world do you think is necessary to have such huge park for people who live in New York? Why?

Anatomy of the Heart



Anatomy of the Heart



彩筆一揮

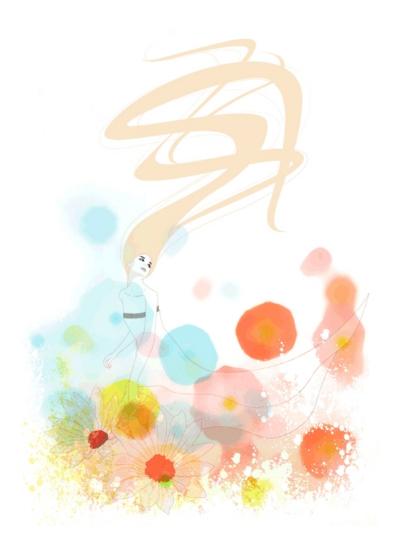
凡踏過的足跡及記憶 必留下永恆的回憶 有一天,我們將會老去—青春、容顏、童言笑語, 還有那滿頭的青絲····。

只有回憶是不老的,註定要在生命的流裡,晃盪、發酵。於是, 終有一天你會發現,能夠擁有回憶是一件多麼幸福的事! 所必呢~~請你一定一定記得:

仔細紀錄這段旅程中你所經歷的點點滴滴~



起程心情點滴◎ҝ













文化體驗日誌⋘



文化體驗日誌⋘













回程心情點滴⋘



Choose a picture here and write your reflection

主題:



時間:_____

地點:_____



Part I: Please capture memorable aspects of each day regarding people, places, or things.
Part II: According to your aspects regarding people, places, or things, write down how do the memorable aspects of each day influence, inspire, and reflect you.
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