



Islamic Civilisation Primer Series

Session 2 - Deep Impact

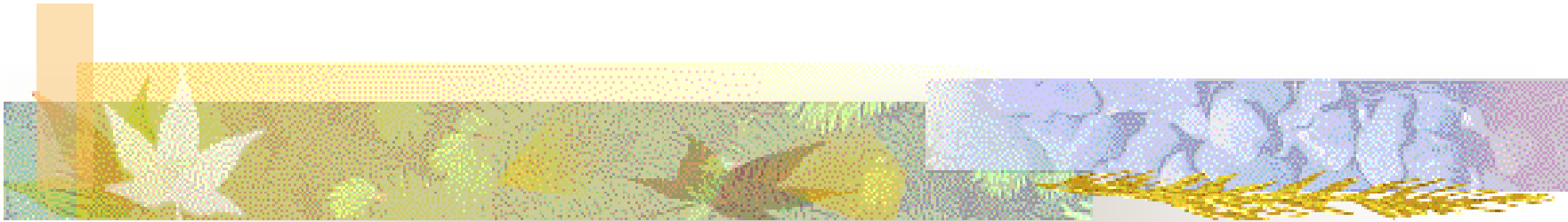
13 January 2007



Deep Impact Programme

1. Recap of Session 1: Contact & Connect (5 min)
2. Link it to Session 2 – Deep Impact (Expectation Setting) (5 min)
3. **Impact 1: Islam & Art (10 min)**
4. Activity 1 PicArt (20 min)
5. Presentation of PicArt (15 min)
6. **Impact 2: Islam & Architecture (10 mins)**
7. Video Session – Part I (15mins)
8. **Sociology Coffee Break – (40 min)**
9. **Impact 3: Islam & Music (10 min)**
10. **Impact 4: Islam & Science (10 min)**
11. Video Session – Part II (15 min)
12. Reflections (5 min)
13. Briefing on Project work (10 min)

Revisiting Session 1: “Contact & Connect”





Case Study

- Art
- Architecture
- Music
- Science



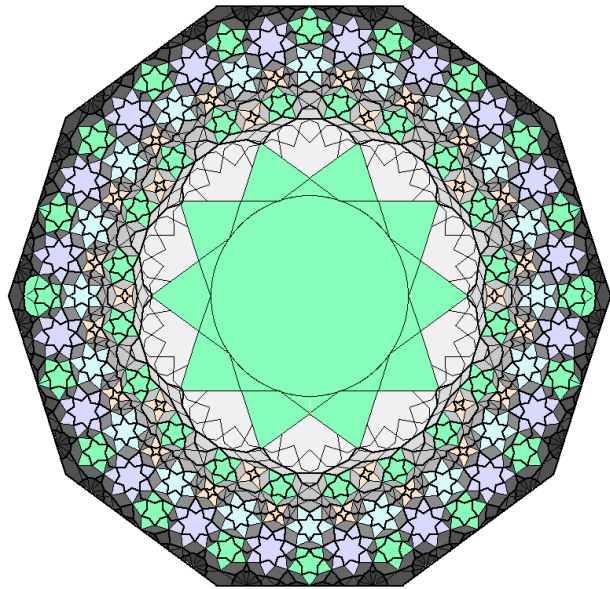
Case Study - Art

Arabesque – Geometric and floral patterns

- Non human/animal forms
- Designs encourage deep thoughts and spiritual contemplation
- Abstract,
- Fitted into mosque
- Creative and freed imagination

Topkapi Scroll

- 114 individual geometric patterns for wall surface
- 15th – 16th C



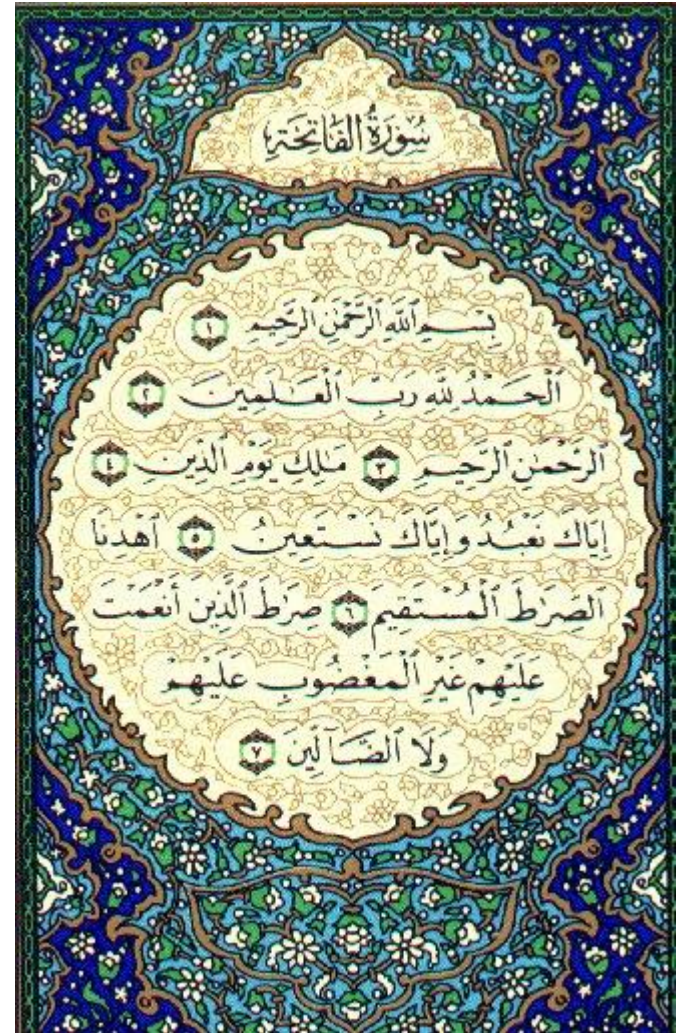
Case Study - Art



King Henry VII –
famous knot design
followed arabesque
patterns

Case Study - Art

- Calligraphy
 - Art of writing beautiful flowing text, in remembrance of God
 - Illustrates the Quran
 - Developed independently



Case Study - Art

- Kufic, Kufa Iraq
- Naskh – Ibn Muqlah
- Diwani - Uthmaniah
- Thuluth – Ummayah
- Farsi - Persian
- Riq'a – Naskh + Thuluth

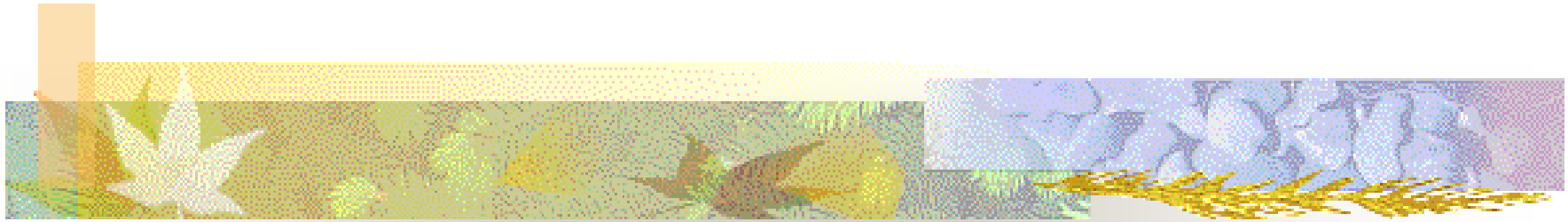


Case Study - Art



From Reed Pen to Fountain Pen

Pic Art



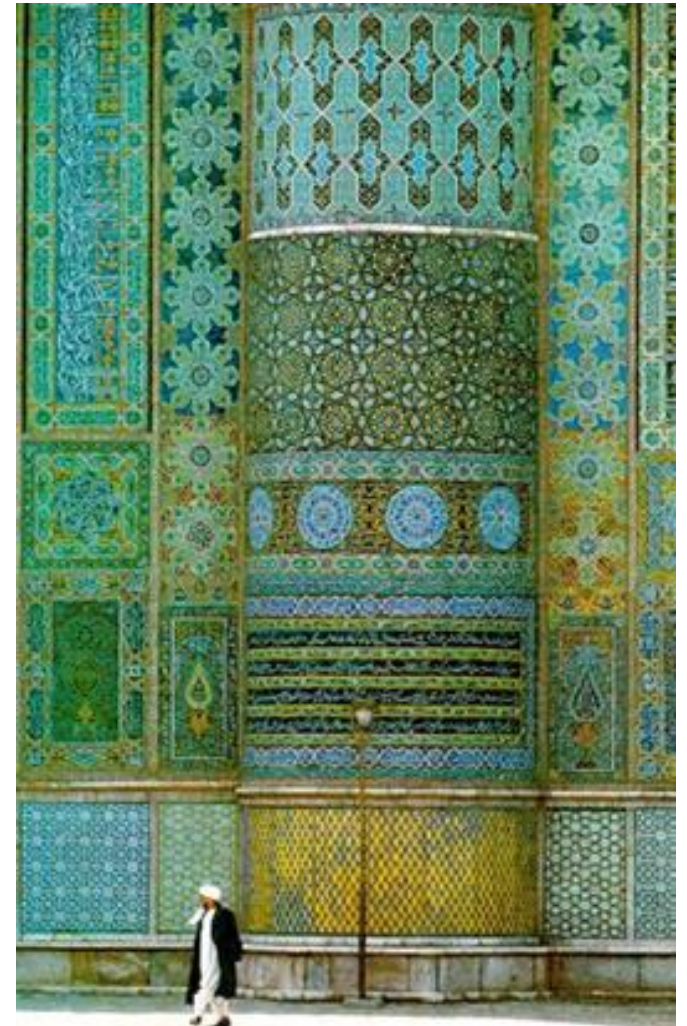


Case Study - Architecture

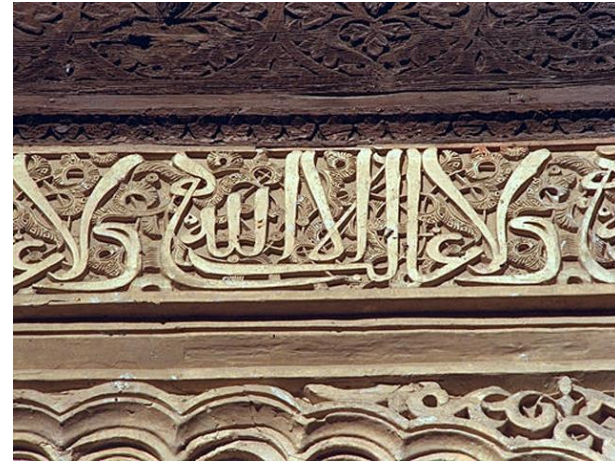
- Values
- Arches
 - Hold huge weights
 - ‘the arch never sleeps’
 - Imitation of palm trees
- Vaults
 - Stone arch that makes a canopy or ceiling
 - Originated by Romans, refined by Muslims
- Dome
 - 3-D arch
 - Represents the vault of heaven
 - Interior lighting

Case Study - Architecture

- Ideas of Allah's infinite power repeated
- Space and Majestic power



Case Study - Architecture





Arches

- Hold huge weights
- ‘the arch never sleeps’
- Imitation of palm trees

Case Study – Arch Architecture



Church of Cristo de la Luz, Toledo, Spain, 10th century – Bab Mardum mosque



St Andrew's Cathedral



Vaults

- Stone arch that makes a canopy or ceiling
- Originated by Romans, refined by Muslims

Case Study – Vault Architecture



Murqana vault at Lotfollah Mosque, Isfahan



Dome of the Rock Ceiling



Ceiling Westminster Abbey, London



Dome

- 3-D arch
- Represents the vault of heaven
- Interior lighting

Case Study – Dome Architecture



Dome of the Rock -691CE



St Basil's
cathedral,
Russia
1555 CE



Singapore Supreme
Court - 1939

Case Study - Architecture

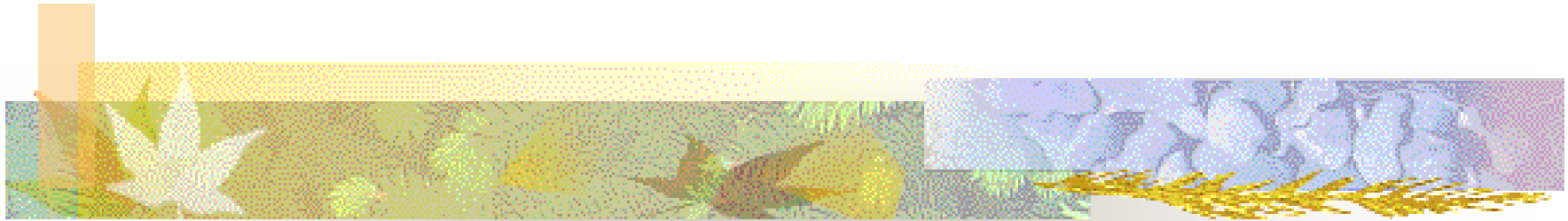


Rose Window in Durham cathedral, UK.



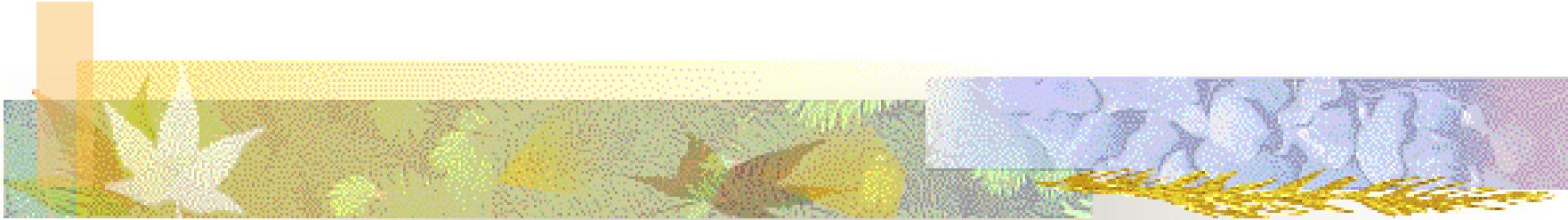
Khirbat al-Mafjar, in Ummayyah Palace, Jordan, 740-750 CE

Now Showing



Architecture in Islam

SOCIOLOGY COFFEE BREAK





Case Study - Music

- Islam doesn't forbid all types of music – only those which lead to improper behaviour
- Scale – do re mi fa so la ti
- Instruments – 'Ud, Rababah
- The great book of music



Musical Notes?

- | | |
|----------|----------|
| ■ Do — د | ■ So - ص |
| ■ Re — ر | ■ La - ل |
| ■ Mi — م | ■ Ti - س |
| ■ Fa - ف | |

Al-Kindi in the 9th century

Music – ‘Ud (lute)

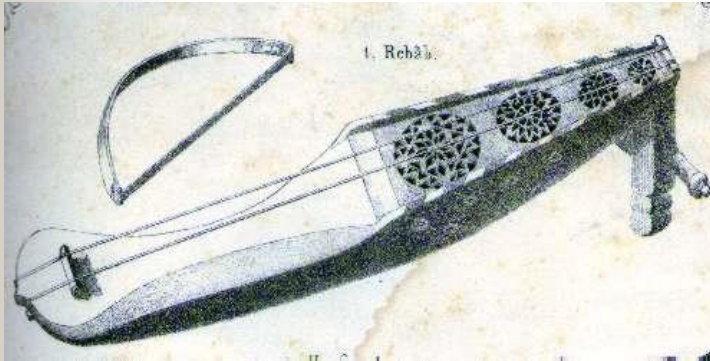


Lute – 8th CE



Guitar

More Musical Instruments



Rababah – 10th CE



Rebab



Violin – 16th CE

Kitab Al-Musiqi Al-Kabir

- Theory of Music
- Translated to Hebrew and Latin
- Focused on the lute – string instrument



Al-Farabi

http://www.chrysalis-foundation.org/Al-Farabi-s_Uds.htm



Case Study - Science

- Learning Science was a culture
- Theories and Instruments
- Astronomy, Chemistry, Physics, Mathematics



Identify as many instruments as you can.



Abdul Rahman Al-Sufi (Azophi)

- 903-986
- Corrected Ptolemy Star list
- First recorded Andromeda Galaxy - 964
- Book of fixed stars
- Magnitude of stars

Ibn Yunus

- Egyptian astronomer
- b 950
- Atmospheric refraction of the Sun
- Invented pendulum
- Trigonometric identity





Mathematics Revisited

$$\cos(a) \cos(b) = 1/2[\cos(a + b) + \cos(a - b)]$$

Abu Bakr Muhammad ibn Zakariya Al-Razi

- 865-925 CE
- First described smallpox
– acknowledged by
Encyclopedia Britannica
- Allergic Asthma
- The virtuous Life/The
large comprehensive/ Al-
Hawi – greatest medical
doctor



Instruments and Inventions

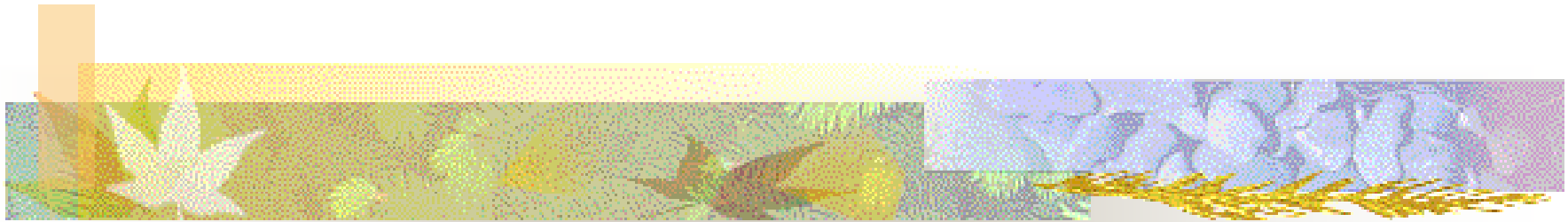


Now Showing



Islam and Science

Reflections



Surah Al-Alaq (1-4)

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

اقْرَأْ بِاسْمِ رَبِّكَ الَّذِي خَلَقَ ﴿١﴾ خَلَقَ الْإِنْسَانَ مِنْ عَلَقٍ
﴿٢﴾ اقْرَأْ وَرَبُّكَ الْأَكْرَمُ ﴿٣﴾ الَّذِي عَلَّمَ بِالْقَلَمِ ﴿٤﴾

- Proclaim! (or read!) in the name of thy Lord and Cherisher, Who created-
- Created man, out of a (mere) clot of congealed blood:
- Proclaim! And thy Lord is Most Bountiful,-
- He Who taught (the use of) the pen,-

Surah Ad-Dukhaan

أَهْلَكْنَاهُمْ إِنَّهُمْ كَانُوا مُجْرِمِينَ ﴿٣٧﴾ وَمَا خَلَقْنَا السَّمَاوَاتِ
وَالْأَرْضَ وَمَا بَيْنَهُمَا لَاعِبِينَ ﴿٣٨﴾ مَا خَلَقْنَاهُمَا إِلَّا بِالْحَقِّ
وَلَكِنَّ أَكْثَرَهُمْ لَا يَعْلَمُونَ ﴿٣٩﴾ إِنَّ يَوْمَ الْفَصْلِ مِيقَاتُهُمْ

Project Work

