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| Middle School |
| **STUDENT NAME:**   **CLASS: \_\_\_\_\_\_\_****TEACHER NAME:**   |

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| **UNIT: Space****ISSUE TOPIC 2D shapes and 3D objects****ASSESSMENT TASK: Investigation****ASSESSMENT DESCRIPTION: In this investigation, students must:*** identify selected 2D shapes and 3D objects from famous megastructures or landmarks around the world – a ‘treasure hunt’.
* produce a powerpoint with photos and graphical overlays of the identified shape or object.
* draw, label and describe relevant physical attributes ie dimensions, faces, edges, vertices.
* reflect on the use of the shape or object in the structure, identifying other alternatives if applicable
* a 2 minute oral presentation of material

**CONDITIONS OF ASSESSMENT:*** **Length: 2 weeks – the amount of class time to be determined by the teacher.**
* **The use of presentation software is expected ie powerpoint, word processing.**
 |  | **Mathematics** |
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| **YEAR 6/7****2010/2011****TERM 2****TASK: Investigation*****‘Around the World in Eighty Shapes’*** |
| **SUMMARY OF RESULTS** |
| **CRITERIA ASSESSED** | **STANDARD** |
| **KNOWLEDGE & UNDERSTANDING** |  |
| **THINKING AND REASONING** |  |
| **REFLECTING** |  |
| **COMMUNICATING** |  |
| **OVERALL RESULT** |  |

# DUE DATE: Sunday, March 6th, 2011

***Context:***

“The Amazing Race” is a television show, first produced in America in 2001, which asks contestants to race around the world, solving problems, facing challenges and identifying details at each destination.

Producers at ‘CBS TV NETWORK’ in America have decided to create a children’s version of the top-rating television show “The Amazing Race” here in the UAE.

In order to help decide eligible contestants for the show, CBS is running a competition in all schools in the UAE, which tests student’s ability to research, identify and present information about details of structures around the world, similar to a ‘***Treasure Hunt’***.

Competition details are as follows;

***Your Task***

1. Research several famous megastructures or landmarks (4 or 5) from around the world to identify the use of a range of 2D and 3D shapes.
2. Produce a Powerpoint with photos and graphical overlays using 2D shapes.
3. For each 2D shape or 3D object, you must draw, label and describe the physical attributes ie dimensions of the life-size shape if known, sides, faces, edges and vertices. For 3D objects, you must represent these attributes on a net also (except for the sphere).
4. For each 2D shape or 3D object, you must also reflect on the use of the shape or object in the structure ie how and why have the 2D shapes or 3D objects have been effectively used in the selected structure.
5. A 2 minute oral presentation of your assignment using PowerPoint. A focus will be on content, organization of material and presentation skills.

Remember, to be a successful on the show, contestants must have a keen eye for detail, so start looking!

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| **2D Shapes to Find** | **3D Objects to Find** |
| * Square
* Triangle
* Rectangle
* Circle
* Rhombus
* Trapezium
* Another polygon
 | * Pyramid (not from Egypt) – any base
* Cylinder
* Cube
* Cone
* Sphere
* Another Prism
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An example of 2 Powerpoint slides has been done for you (see overleaf). You can choose to present your information in even greater detail in a style of your choice using Powerpoint. **Remember to include a net diagram of 3D objects (except the sphere of course) with labelled dimensions.**



