

STEM IN MUSEUMS OR PUTTING ON YOUR “MATHS SPECS!”

Gillian Waters

Mathematical Concepts

KS1

- **Mathematical language**
- **Grouping and sorting activities**
- **Counting, doubling and halving**
- **Time**



KS1&2

- **Estimation and Measurement**
- **2D & 3D shapes and sizes**
- **Parallel, horizontal and vertical lines**
- **Repeating patterns & symmetry**
- **Area & volume**
- **Angles, Fractions & Ratio**
- **Circles and rotation**



Data Collection

KS1

Data Collection to produce simple bar graphs and charts

KS2

On-site data collection could inform further investigation of:

- Volume, area, nets and scale
- Arithmetic sequences and number patterns
- Number and Multiplication
- Fractions and Percentages
- Co-ordinates and Plotting



MATHEMATICAL LANGUAGE



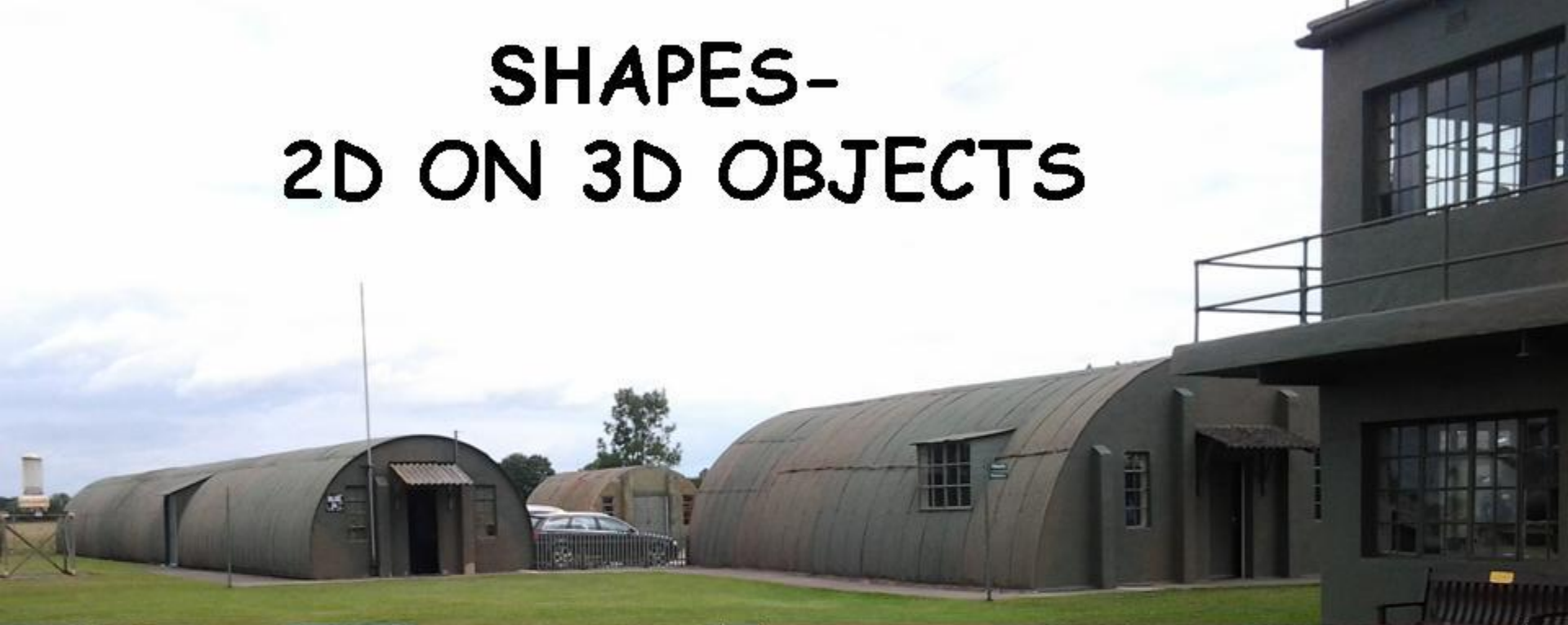
SHAPES- 2D & 3D





REGULAR AND IRREGULAR POLYGONS

SHAPES- 2D ON 3D OBJECTS



CIRCLES & FRACTIONS



CIRCLES & FRACTIONS



ROTATION



CLOCKWISE & ANTI-CLOCKWISE





REPEATING PATTERNS & SYMMETRY

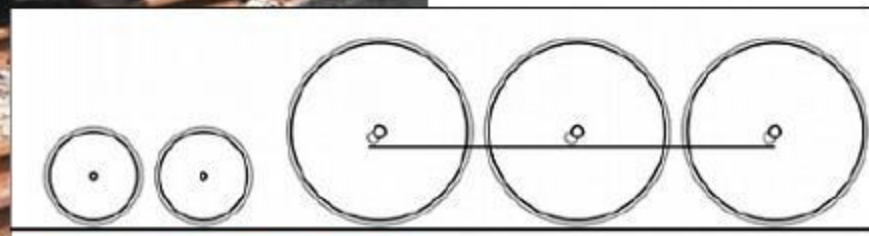


AREA & VOLUME

DOUBLING & HALVING



**Bahamas
Jubilee
Class 5
4-6-0**



ANGLES





Wings and Simple Angles



Straight- at right angles
to the body of the plane



Swept- 45 degree
backwards



Forward sweep-
45 degree forwards



