

Year 4 Homework
Please return by Wednesday 13th April

Project:

Our next project is '**Extreme environments**'. As part of your holiday homework we would like you to write an information report on one of the environments below.

'Every plant or animal lives in a habitat. A habitat is another name for their local environment. Plants and animals often have to adapt, or change in order to survive.'



Choose one of the following environments to research:

- Arctic
- Desert
- Ocean
- Local area

Can you write a report about one of the environments?

Project success criteria:

- ★ What plants habitats are there?
- ★ What animals habitats are there?
- ★ How have they adapted to the habitat in order to survive?
- ★ Do the habitats change throughout the year?

As part of our project work, we connect our skills to another area of the curriculum. We would like you to connect the research you have found out to literacy. Below is the success criteria within the Year 4 standard that your writing should include.

Literacy success criteria:

- ★ Fronted adverbials: **Time** (when?) - In the morning, At sunset. **Place** (where?) In the desert, Upon the sea edge. **Manner** (how?) Slowly, slyly. **remember to mark fronted adverbials with a comma**
- ★ Year 4 conjunctions: while, so, because, when, if, however, although.
- ★ Range of punctuation . , ! ?
- ★ Adverbs (describe the verb: slowly walk, quickly bend).
- ★ Adjectives (describe the noun: miniscule mouse, gigantic tree)
- ★ Paragraphs
- ★ Proof-read (read your sentences aloud to check they make sense!)

Maths:

We would like the children to explore geometry over the Easter holidays. We will be assessing the children's knowledge when they come back to school on this area so it would be really beneficial to complete all three challenges. (Each challenge should take no more than 20 minutes).

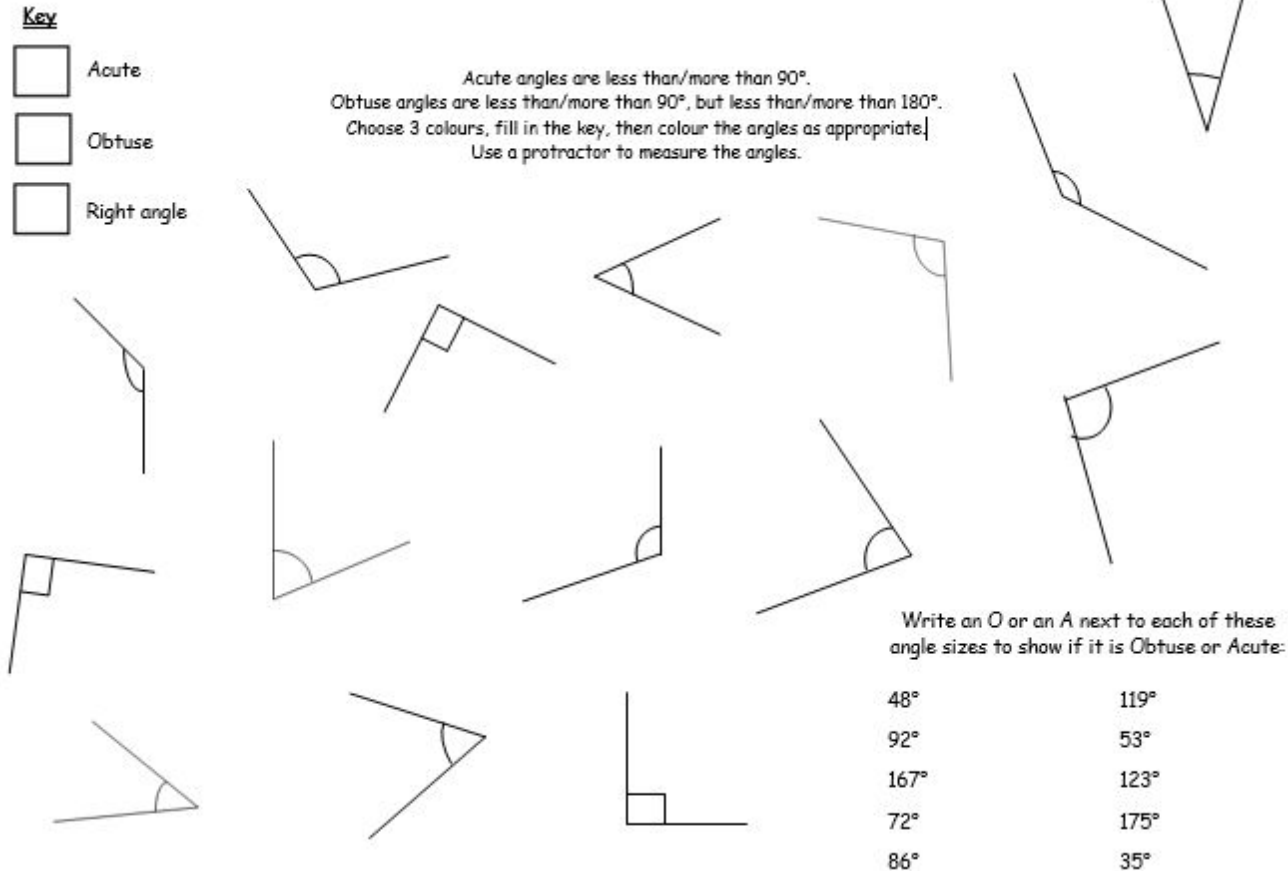
Challenge 1:

Can you identify and label the acute, obtuse and right angles below.

Key

<input type="checkbox"/>	Acute
<input type="checkbox"/>	Obtuse
<input type="checkbox"/>	Right angle

Acute angles are less than/more than 90° .
Obtuse angles are less than/more than 90° , but less than/more than 180° .
Choose 3 colours, fill in the key, then colour the angles as appropriate.
Use a protractor to measure the angles.



Write an O or an A next to each of these angle sizes to show if it is Obtuse or Acute:

48°	119°
92°	53°
167°	123°
72°	175°
86°	35°

Challenge 2: Can you draw or name a shape that fits each of the following rules?

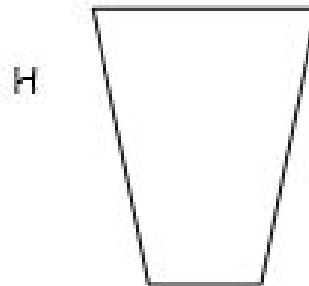
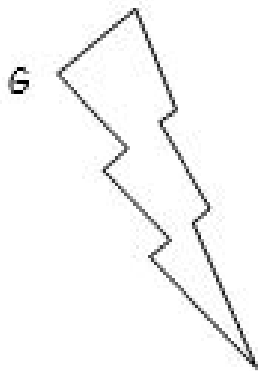
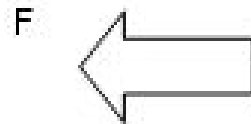
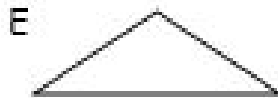
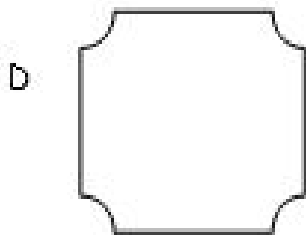
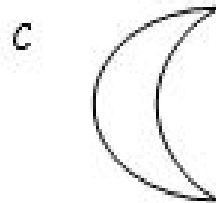
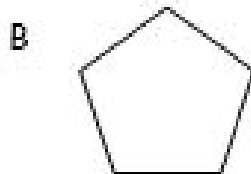
Success criteria:

- ★ Remember the rules may apply to more than one shape, choose one to name or draw.
 - ★ Draw or name a different shape for each bullet point.
 - ★ Lines of symmetry: the line of symmetry divides a shape into two mirror image halves.
 - ★ Vertices: a point where two or more straight lines meet.
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- A shape that has more than 3 sides.
 - The sides of the shape are not all the same length.
 - The shape has at least one right angle.
 - The shape has exactly two lines of symmetry.
 - The shape has fewer than five vertices.
 - The sides of the shape are all equal.

Challenge 3: Lines of symmetry (the line of symmetry divides a shape into two mirror image halves.)

Lines of Symmetry

1. Use a ruler to draw all the lines of symmetry you can on each shape, then check them with a mirror.



2. Draw the reflection of each shape on the other side of the dotted mirror line.

