Homework/Extension Step 2: Introduce Angles

National Curriculum Objectives:

Mathematics Year 6: (6G3a) <u>Draw 2-D shapes using given dimensions and angles</u> Mathematics Year 6: (6G2a) <u>Compare and classify geometric shapes based on their</u> <u>properties and sizes</u>

Mathematics Year 6: (6G4a) Find unknown angles in any triangles, quadrilaterals and regular polygons

Mathematics Year 6: (6G4b) <u>Recognise angles where they meet at a point, are on a</u> straight line, or are vertically opposite, and find missing angles

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Identify two angles that make a half turn. Introduces right angles and angles on a straight line by making links to quarter and half turns.

Expected Identify two angles that make a three quarter turn. Introduces right angles, angles on a straight line, and angles around a point by making links to quarter, half and three-quarter turns.

Greater Depth Identify three angles that make a three quarter turn. Introduces angles in shapes and comparing types of angles by making links to quarter, half and three-quarter turns.

Questions 2, 5 and 8 (Varied Fluency)

Developing Decide if a statement is correct. Introduces right angles and angles on a straight line by making links to quarter and half turns.

Expected Decide if a statement is correct. Introduces right angles, angles on a straight line, and angles around a point by making links to quarter, half and three quarter turns. Greater Depth Decide if a statement is correct. Introduces angles in shapes and comparing types of angles by making links to quarter, half and three quarter turns.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Explain if a statement is correct. Introduces right angles and angles on a straight line by making links to quarter and half turns.

Expected Explain if a statement is correct. Introduces right angles, angles on a straight line, and angles around a point by making links to quarter, half and three quarter turns. Greater Depth Explain if a statement is correct. Introduces angles in shapes and comparing types of angles by making links to quarter, half and three quarter turns.

More <u>Year 6 Properties of Shapes</u> resources.

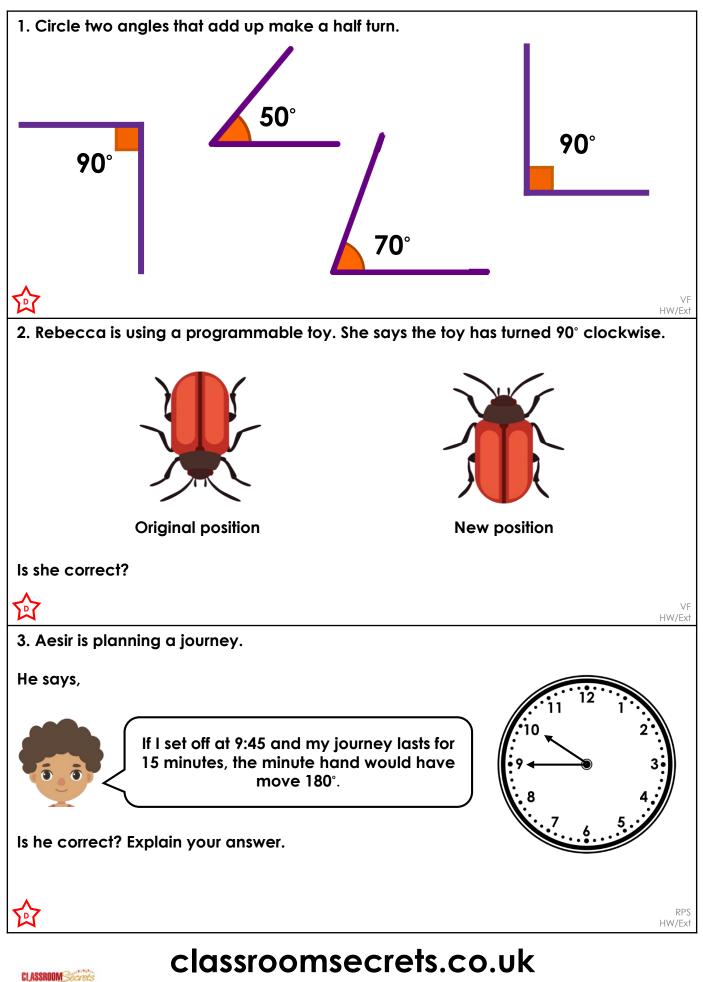
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Homework/Extension – Introduce Angles – Teaching Information

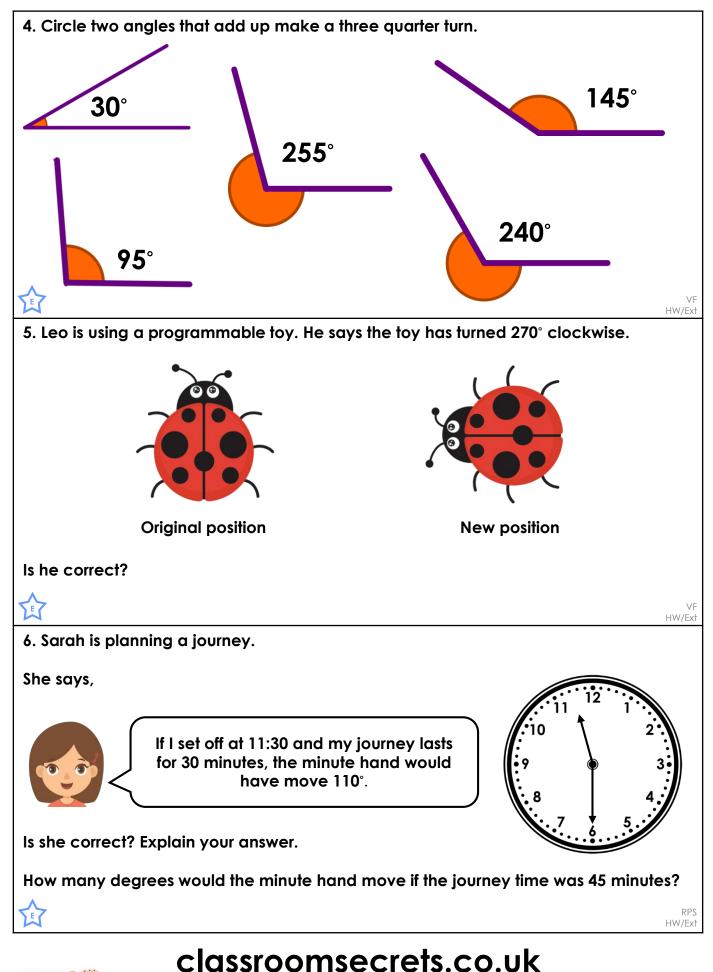
Introduce Angles



Homework/Extension – Introduce Angles – Year 6 Developing

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Introduce Angles

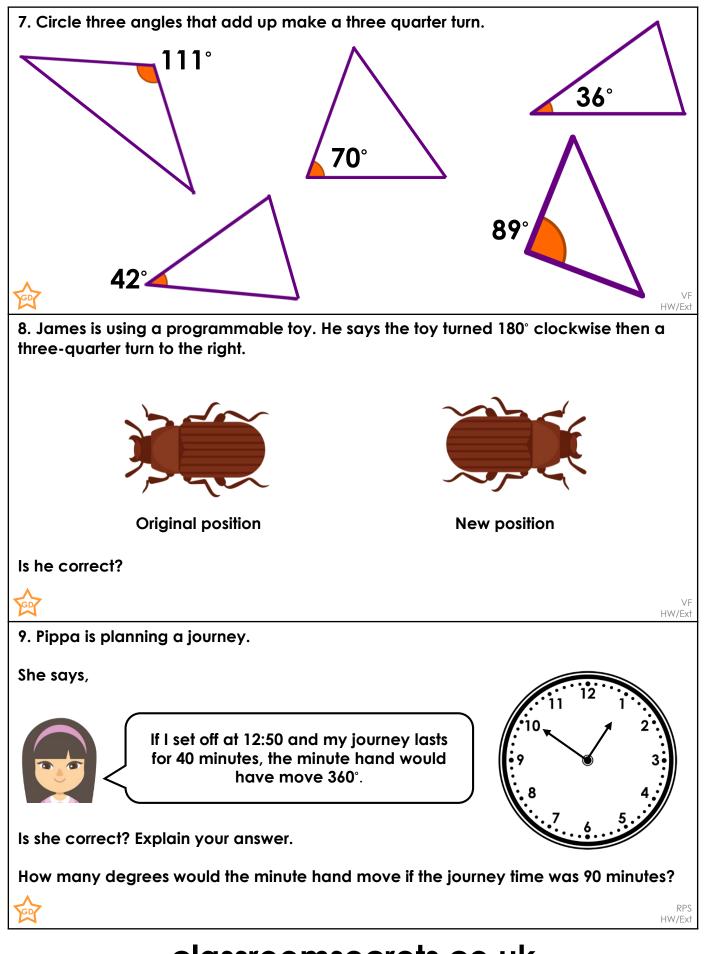


Homework/Extension – Introduce Angles – Year 6 Expected

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Homework/Extension Introduce Angles

<u>Developing</u>

1. 90° and 90°

2. No, the toy has turned 180° clockwise or 180° anti-clockwise.

3. No, the minute hand would have moved 90° as 15 minutes is a quarter of an hour.

Expected

4. 240° and 30°

5. Yes, the toy has moved 270° clockwise.

6. No, the minute hand would have moved 180° as it is an angle on a straight line. 270°.

<u>Greater Depth</u>

7. $111^{\circ} + 89^{\circ} + 70^{\circ} = 270^{\circ}$ (a three quarter turn)

8. No, the toy has only turned 180° clockwise.

9. No, the minute hand would have moved 240°. 360° is equal to 1 hour.

540°.





Homework/Extension – Introduce Angles ANSWERS