Homework/Extension Step 11: Sort 3D Shapes

National Curriculum Objectives:

Mathematics Year 2: (2G1b) <u>Compare and sort common 3-D shapes and everyday objects</u> Mathematics Year 2: (2G2b) <u>Identify and describe the properties of 3-D shapes, including the</u> <u>number of edges, vertices and faces</u>

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Use the sorting hoops to complete the statements. Supports sorting 3D shapes, with reference to the number or faces, edges and vertices. All shapes are presented in the same orientation and size. Perspective lines visible on all shapes.

Expected Use the sorting hoops to complete the statements. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes.

Greater Depth Use the sorting hoops to complete the statements. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of real-life objects.

Questions 2, 5 and 8 (Varied Fluency)

Developing Circle the shape that cannot be sorted into the sorting hoops. Supports sorting 3D shapes, with reference to the number or faces, edges and vertices. All shapes are presented in the same orientation and size. Perspective lines visible on all shapes.

Expected Circle the shape that cannot be sorted into the Venn diagram. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes and some real-life objects.

Greater Depth Circle the shape that cannot be sorted into the Venn diagram. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of real-life objects.

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

Developing Identify 2 shapes that would go in the empty group. Supports sorting 3D shapes, with reference to the number or faces, edges and vertices. All shapes are presented in the same orientation and size. Perspective lines visible on all shapes.

Expected Identify 2 shapes that would go in the empty group. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes.

Greater Depth Identify 2 shapes that would go in the empty group. Supports sorting 3D shapes, with reference to the number of faces, edges and vertices. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of real-life objects.

More <u>Year 2 Properties of Shape</u> resources.

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Homework/Extension – Sort 3D Shapes – Teaching Information

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Homework/Extension – Sort 3D Shapes – Year 2 Developing

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Homework/Extension – Sort 3D Shapes – Year 2 Expected

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Homework/Extension – Sort 3D Shapes – Year 2 Greater Depth

Homework/Extension Sort 3D Shapes

Developing

- 1. Set A. 12; Set B. 5; various answers, for example: sphere
- 2. cone
- 3. Various answers, for example: cube and triangular-based pyramid

Expected

- 4. Set A. 2; Set B. 8; various answers, for example: cone
- 5. sphere
- 6. square-based pyramid and triangular prism

Greater Depth

- 7. Set A. 9; Set B. 1; various answers, for example: triangular-based pyramid
- 8. cuboid
- 9. sphere and cylinder



