Homework/Extension Step 10: Count Vertices on 3D Shapes

National Curriculum Objectives:

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

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the 3D shape to the number of edges and vertices it has. All shapes presented in the same orientation and size. Perspective lines visible on all shapes. Expected Match the 3D shape to the number of edges and vertices it has. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes. Greater Depth Match the 3D shape to the number of edges and vertices it has. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of some real-life objects.

Questions 2, 5 and 8 (Varied Fluency)

Developing Tick the statements that are true for the shape given. All shapes presented in the same orientation and size. Perspective lines visible on all shapes.

Expected Tick the statements that are true for the shape given. All shapes presented in different orientations and sizes. Perspective lines visible on some shapes.

Greater Depth Tick the statements that are true for the shape given. All shapes presented in different orientations and sizes. No perspective lines visible on shapes, with the use of some real-life objects.

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

Developing Identify and explain if the statement is true. Visual support with perspective lines provided.

Expected Identify and explain if the statement is true. All shapes presented in different orientations and sizes. Visual support without perspective lines provided.

Greater Depth Identify and explain if the statement is true. All shapes presented in different orientations and sizes. No visual support provided.

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

Did you like this resource? Don't forget to <u>review</u> it on our website.



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Homework/Extension – Count Vertices on 3D Shapes – Teaching Information

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Homework/Extension – Count Vertices on 3D Shapes – Year 2 Developing

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Homework/Extension - Count Vertices on 3D Shapes - Year 2 Expected

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Homework/Extension - Count Vertices on 3D Shapes - Year 2 Greater Depth

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2. C and D

3. Hattie is incorrect because a square-based pyramid has 5 vertices not 4, so 5 balls of playdough are needed.

Expected



5. B and C

6. Azzam is incorrect because a cuboid has 8 vertices not 12, so 8 balls of playdough are needed.

Greater Depth



8. C and D

9. Tallulah is incorrect because a triangular prism has 6 vertices not 9, so 6 balls of playdough are needed.





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