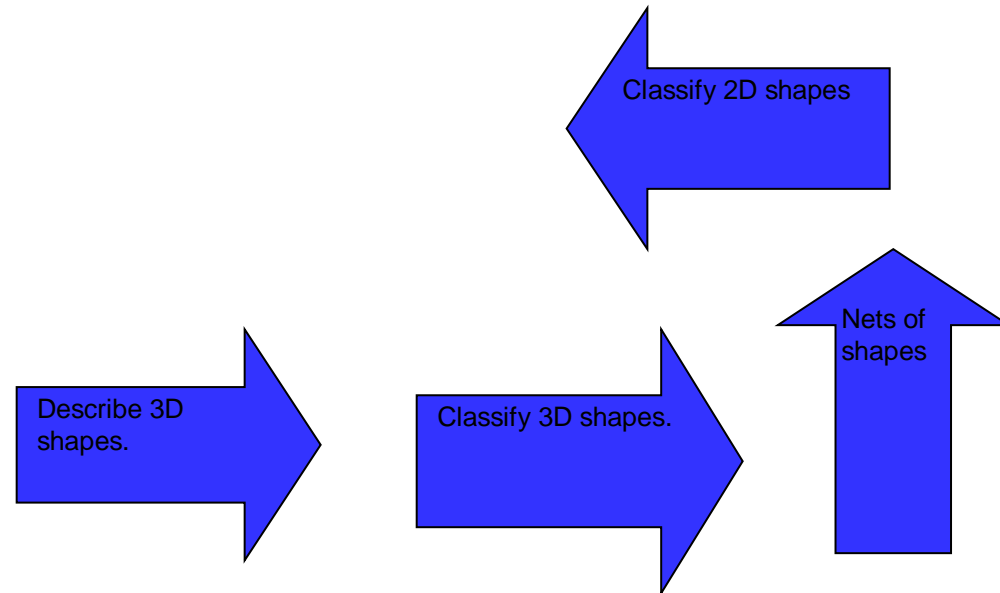


Year 6 Maths: Geometry - Properties Of Shape.

KEY WORDS

Angle	Irregular	Vertices
Right-angle	2D	Edge
Horizontal	Degrees	Vertex
Vertical	Triangle	
Parallel	Quadrilateral	
Perpendicular	3D	
Polygon	Flat face	
Regular	Curved faced	










SEQUENCE:

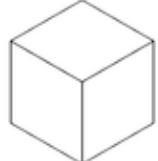
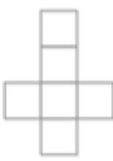



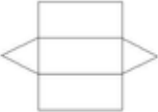


Properties of 3D Shapes







3D shapes have three dimensions – **length, width** and **depth**.

A **polyhedron** is a 3D shape with flat faces. Spheres, cylinders and cones are not polyhedrons as they have curved surfaces.

Cube  6 square faces 12 edges 8 vertices	Tetrahedron  4 triangular faces 6 edges 4 vertices	Sphere  1 curved surface 0 edges 0 vertices
Cuboid  6 faces 12 edges 8 vertices	Octahedron  8 faces 12 edges 6 vertices	Triangular prism  5 faces 9 edges 6 vertices
Square-based pyramid  5 faces 8 edges 5 vertices	Cone  1 circular face 1 curved surface 1 curved edge 1 apex	Cylinder  2 circular faces 1 curved surface 2 curved edges 0 vertices

Cube		
Cuboid		
Triangular Prism		

Classifying 2D shapes...

	Only straight sides	Curved sides
1 Line of symmetry		
2 Lines of symmetry		
3 Lines of symmetry		

Shapes can be classified using properties such as number of sides and lines of symmetry



Twist It.



I can fill every space in the table

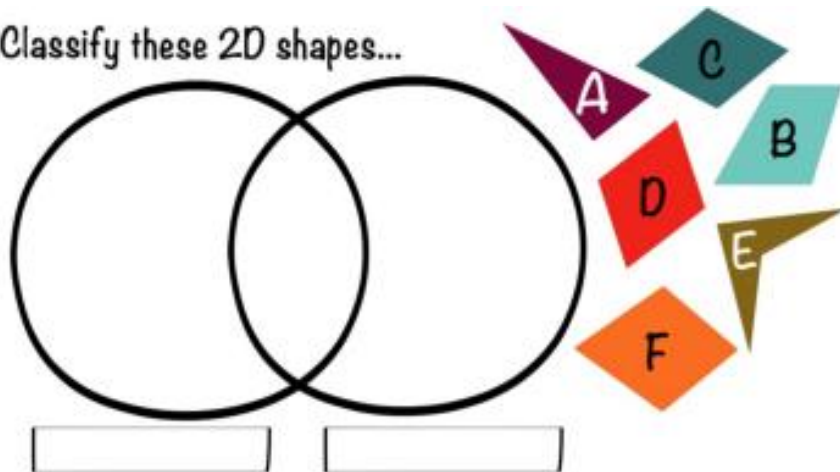
Do you agree with Colin?
Explain...

	3 Sides	4 Sides	5 Sides
2 Right angles			
3 Right angles			
4 Right angles			



Do It.

Classify these 2D shapes...



A **C**
D **B**
E
F

Deepen it.

Play Shape Classification Snap

Share shape cards (possibly Buzzard's shape cards) between 2 players

Play snap

Say snap if you can think of a category the 2 shapes have in common

First player to collect all the cards wins!

