

SESSION : 2
CLASS : 3
SUBJECT : MATHEMATICS
CHAPTER NUMBER: 7
CHAPTER NAME : GEOMETRY
SUBTOPIC : 3-D SHAPES OR SOLIDS

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

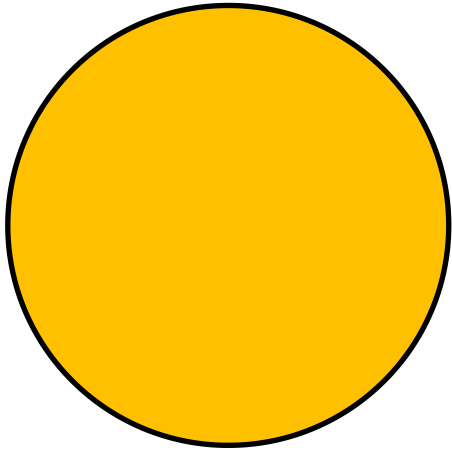
Children will:

- * Need many opportunities to learn about shapes.
- * Learning to identify and understand what the different shapes are, as well as their parts are important concepts.
- * Be exposed to shapes in their environment in everyday life.
- * Learn to see and interact with them everywhere daily. They need to be able to recognize shapes, verbalize what they see, and understand why they are there.

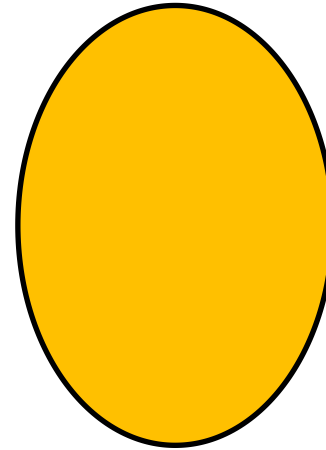
GEOMETRY

3-D SHAPES OR SOLIDS

Can you name this 2-D shapes?



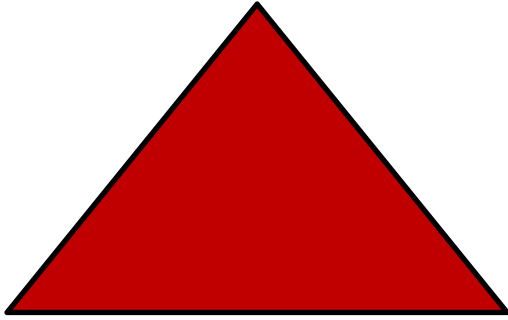
CIRCLE



OVAL

GEOMETRY

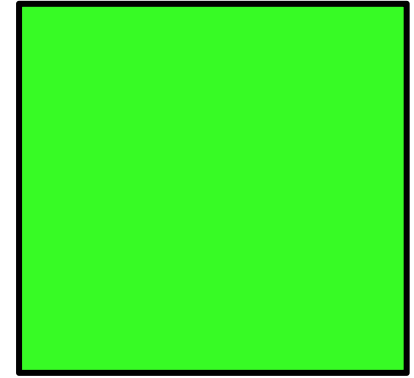
3-D SHAPES OR SOLIDS



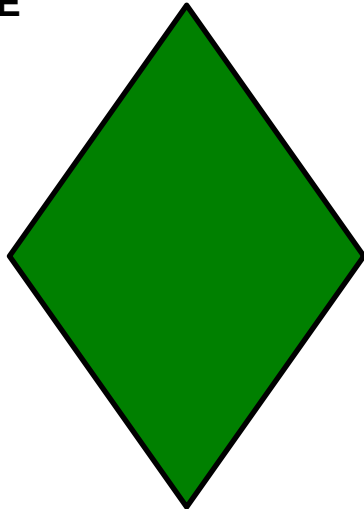
TRIANGLE



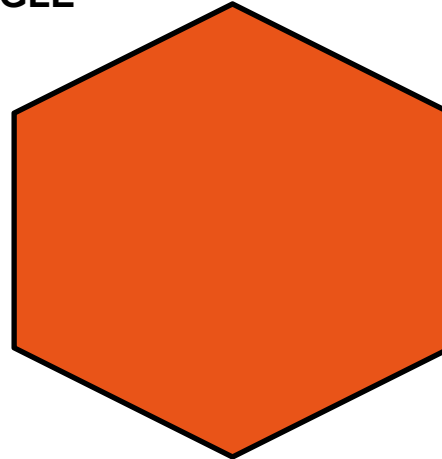
RECTANGLE



SQUARE



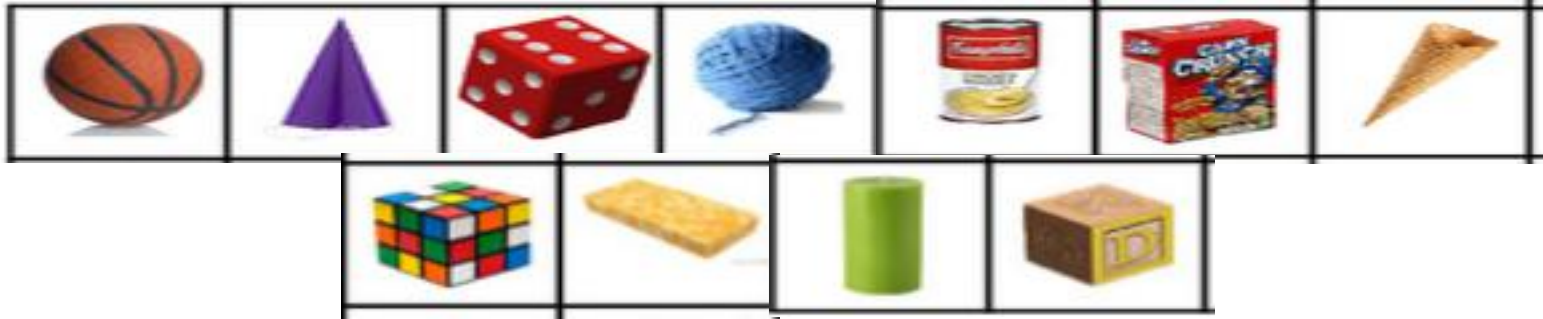
RHOMBUS



HEXAGON

GEOMETRY

3-D SHAPES OR SOLIDS



These shapes are related to the 3-D (three-dimensional) shapes. They are solid shapes that have three dimensions including length, depth and width.

GEOMETRY

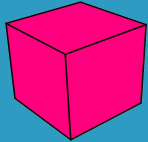
3-D SHAPES OR SOLIDS

3 - D Shapes

'3D', or 'three-dimensional', simply means that the shape is a solid object.

“Three Dimensional” means Length, Width and height.

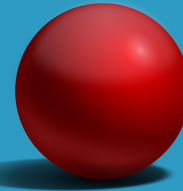
Examples of 3-D shapes-



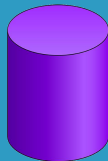
— CUBE



— CUBOID



— SPHERE



— CYLINDER



— CONE

GEOMETRY

3-D SHAPES OR SOLIDS

KEY WORDS

FLAT FACES

CURVED FACES

STRAIGHT EDGES

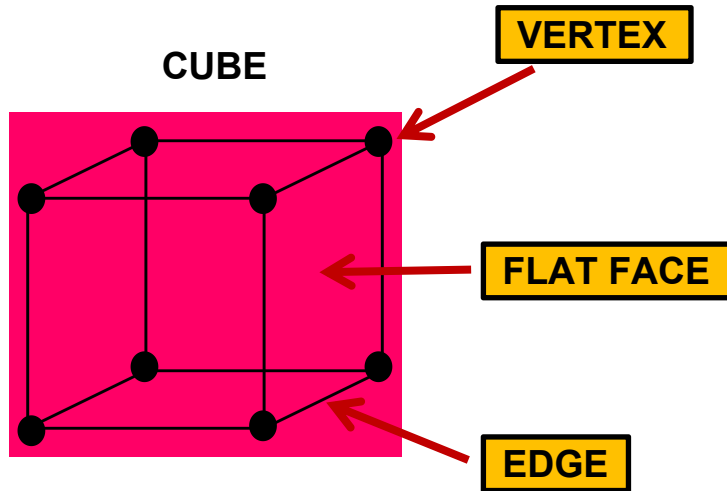
CURVED EDGES

VERTEX (VERTICES)

GEOMETRY

3-D SHAPES OR SOLIDS

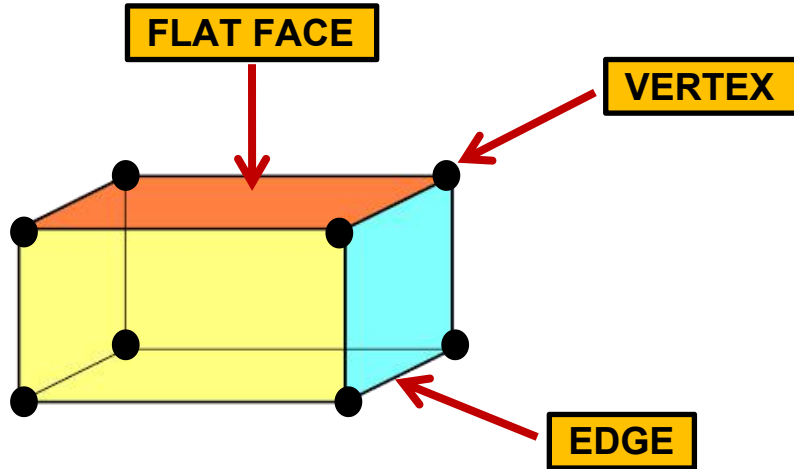
Now let us see the 3 - D Shapes one by one in details.



A Cube has 8 vertices, 12 edges and 6 faces. The faces are flat and edges are straight of a cube.

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3-D SHAPES OR SOLIDS

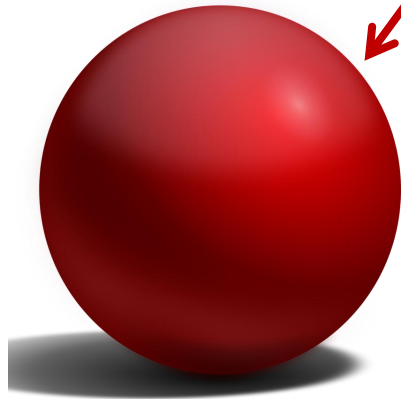


CUBOID

A Cuboid has 8 vertices, 12 edges and 6 faces. The faces are flat and edges are straight of a cuboid.

GEOMETRY

3-D SHAPES OR SOLIDS



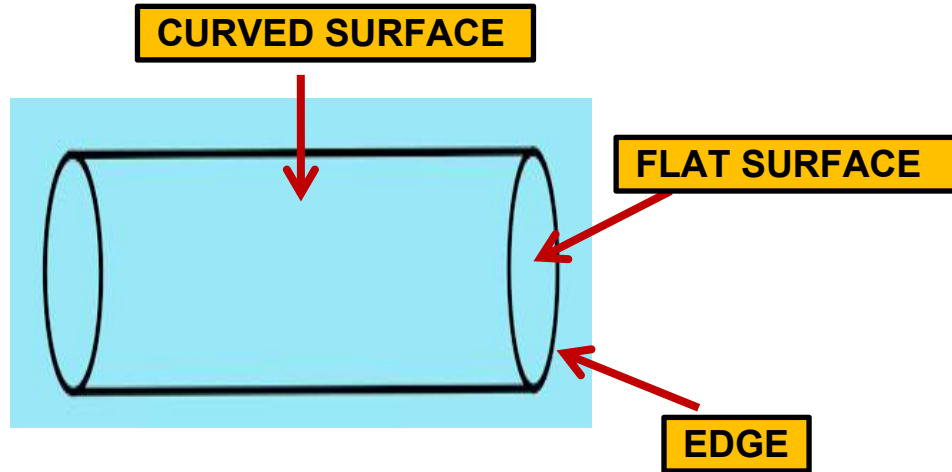
SPHERE

CURVED SURFACE

**A Sphere has only one
curved surface.**

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3-D SHAPES OR SOLIDS

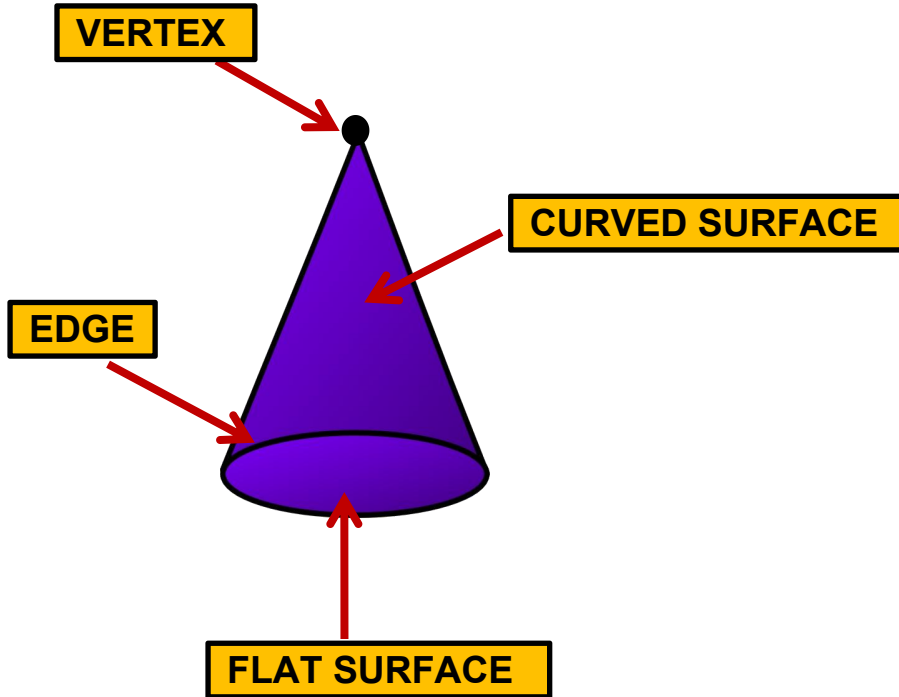


A Cylinder has 2 curved edges and 3 faces. 1 curved face and 2 flat faces are there of a cylinder.

GEOMETRY

3-D SHAPES OR SOLIDS

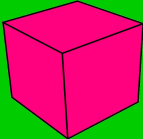
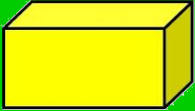
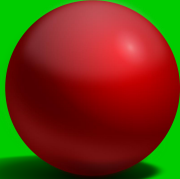
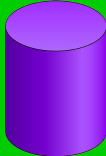

CONE



A Cone has 1 vertex, 1 curved edge, 1 flat face and 1 curved face.

GEOMETRY

3-D SHAPES OR SOLIDS

SHAPES	Cube 	Cuboid 	Sphere 	Cylinder 	Cone 
Vertices	8	8	0	0	1
Straight edges	12	12	0	0	0
Curved edges	0	0	0	2	1
Flat faces	6	6	0	2	1
Curved faces	0	0	1	1	1

GEOMETRY

3-D SHAPES OR SOLIDS

**Exercise-7 A Q. No A
in the notebook.**



GEOMETRY

3-D SHAPES OR SOLIDS

Answer the following :

- 1) Name of figures with only length and width 2-D shapes .
- 2) Name a shape with 3 sides triangle .
- 3) Name the solid which has three faces cylinder
- 4) Name the solid with one vertex cone .

GEOMETRY

3-D SHAPES OR SOLIDS

5) Name the solid which has only one faces sphere.

6) How many edges does a cube have 12.

7) Name a 2-D shape with no diagonals triangle.

8) Name a solid with two faces Cone.

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3-D SHAPES OR SOLIDS

Videos to make a cube, a cuboid and a cone :



CUBE.mp4



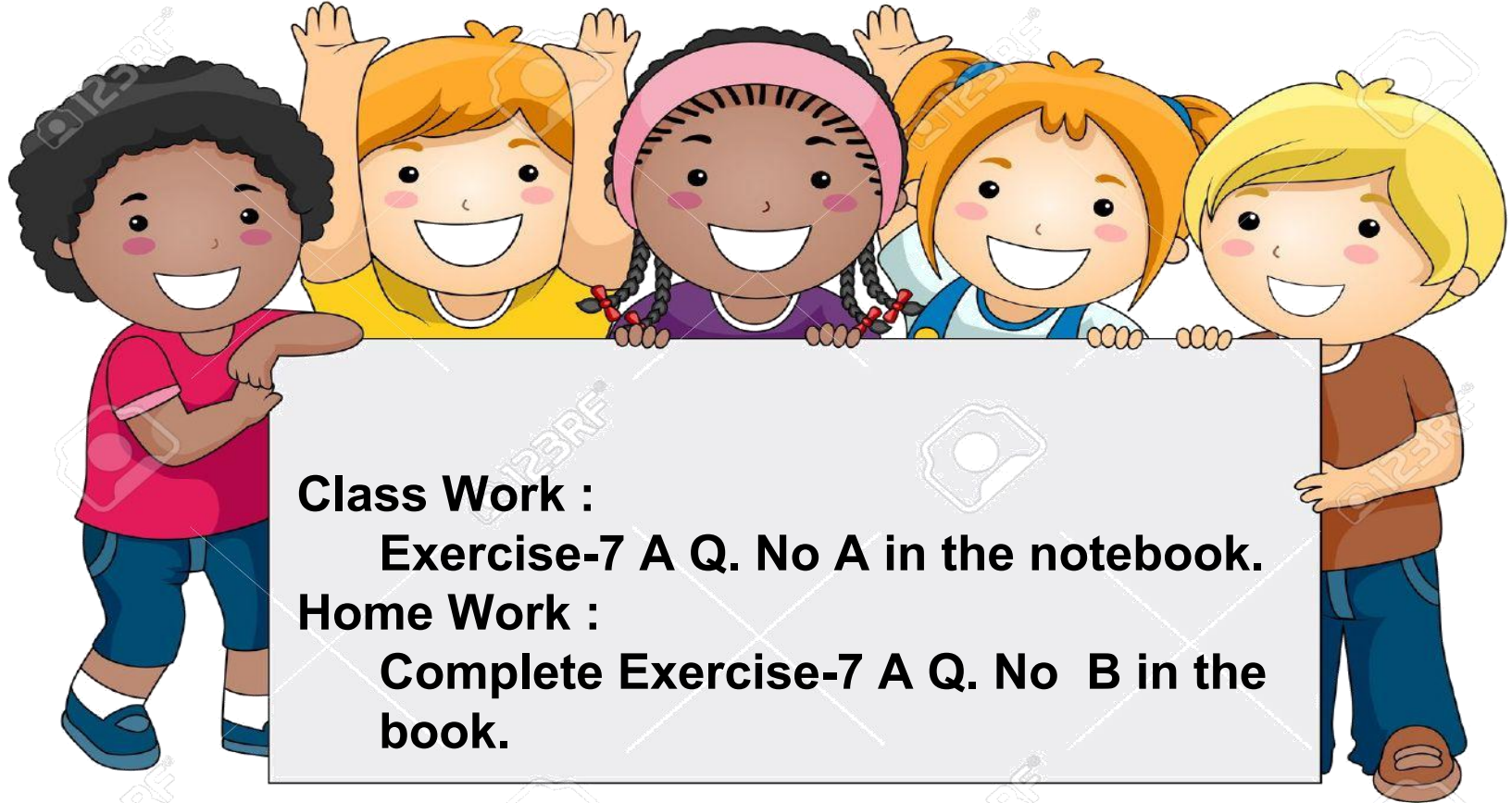
CUBOID.mp4



CONE.mp4

GEOMETRY

3-D SHAPES OR SOLIDS



LEARNING OUTCOME:

Children are confident to learn about shapes, learn to identify and understand what the different shapes are, as well as their parts are important concepts. Also be exposed to shapes in their environment in everyday life. Learn to see and interact with them everywhere daily. They need to be able to recognize shapes, verbalize what they see, and understand why they are there.

THANKING YOU
ODM EDUCATIONAL GROUP