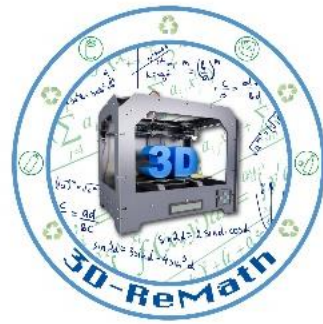# 3D printing technology aims students understanding maths and recycling procedure

O2_3ʳᵈ Curricula of Maths: Stereometry

3D shapes_edges_faces_verices
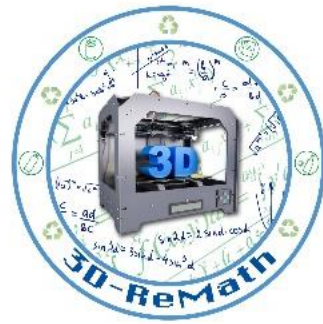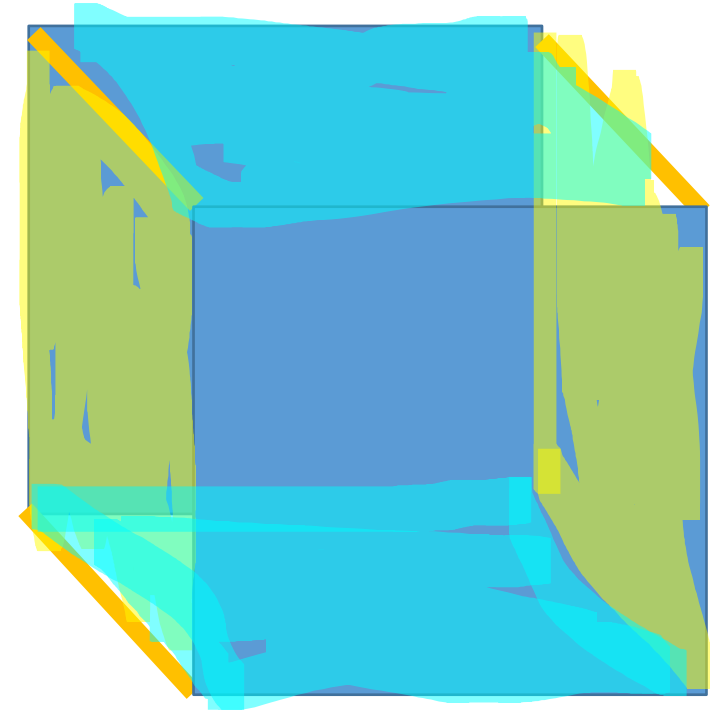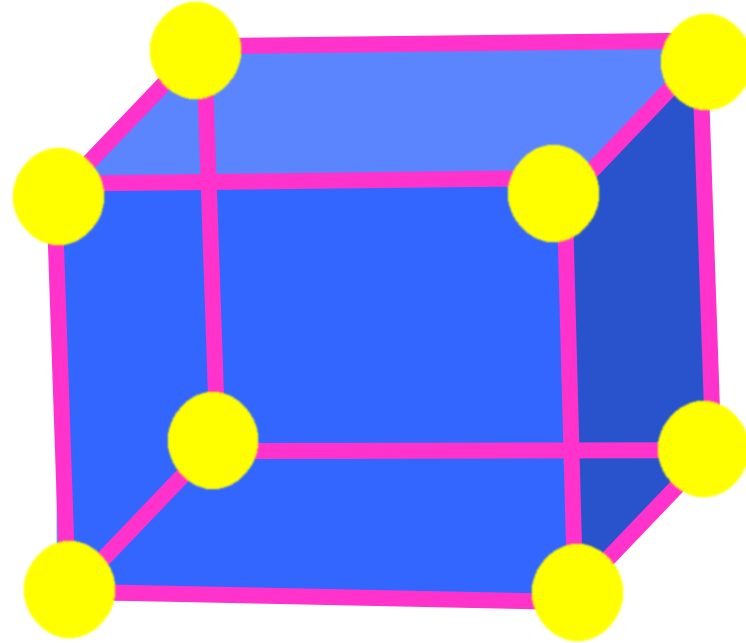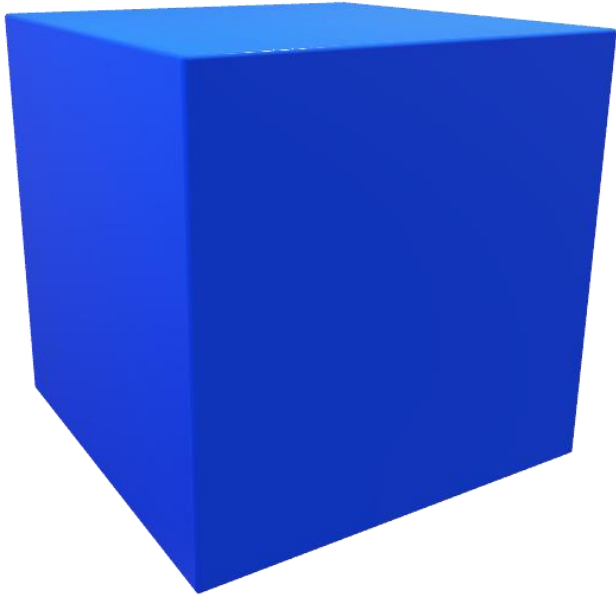
Outline

- 3D Shapes: Edges, Faces, Vertices
- Videos

Cube

Cube

Edges is a line that connect two faces

Vertex is a point that connect two or more edges

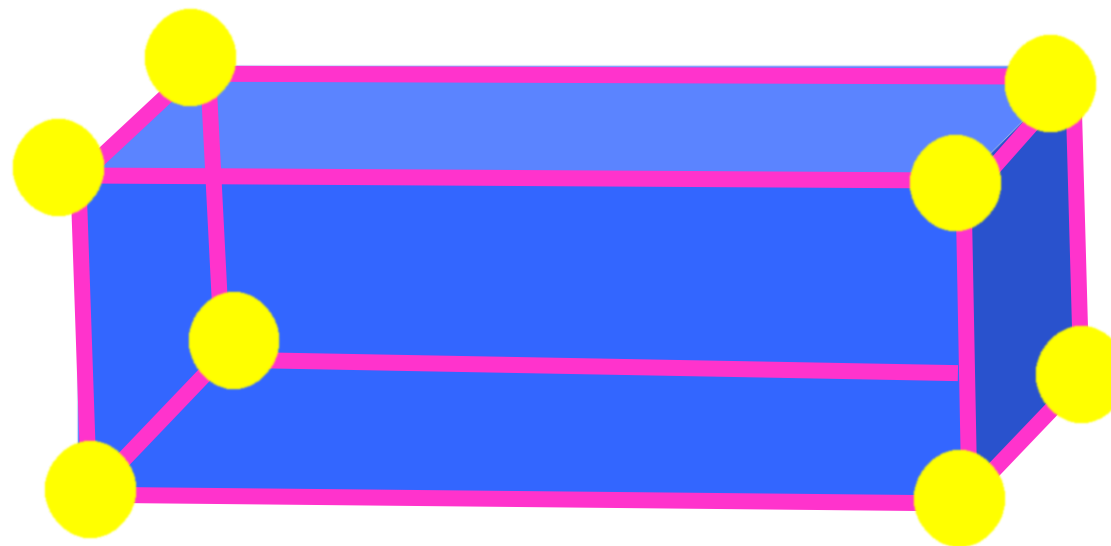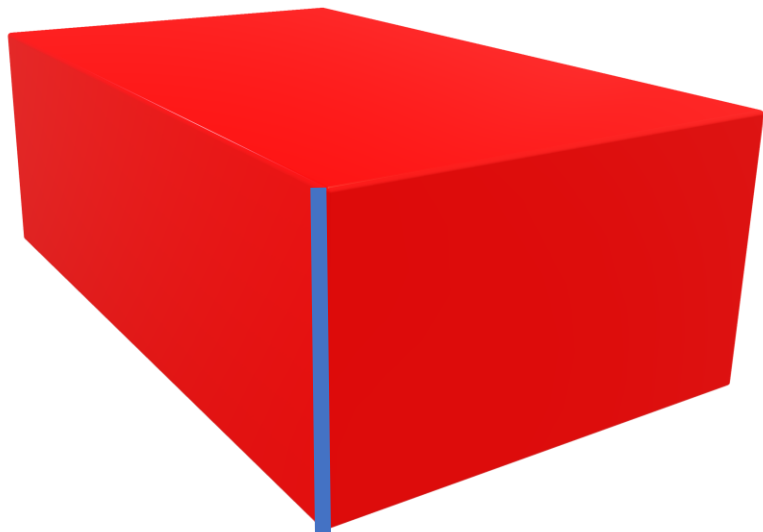Face is the are of the shape outside the fold

Edges	`Vertices	Faces
12	8	6

Cuboid-Rectangular Prism

Orthogonal

Cuboid

Edges	`Vertices	Faces
12	8	6

Cone

Surface

Face

Vertex

Edge

2

1
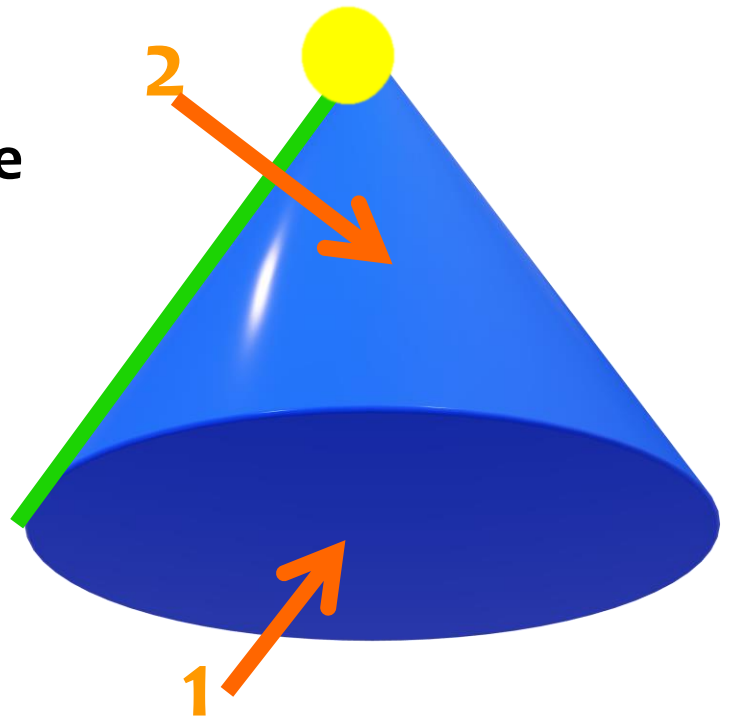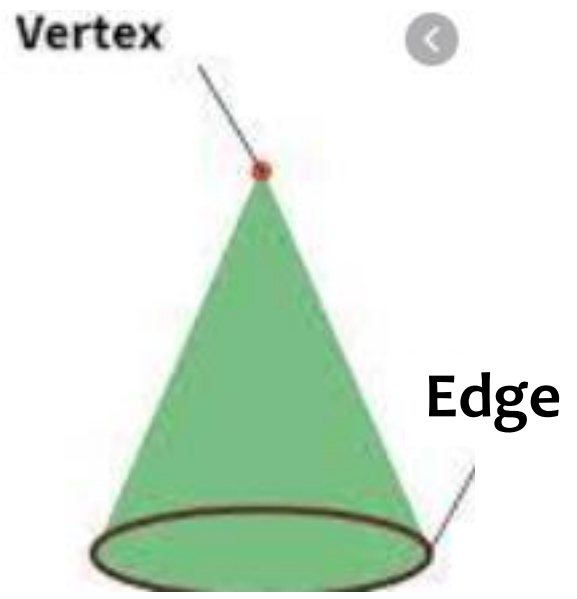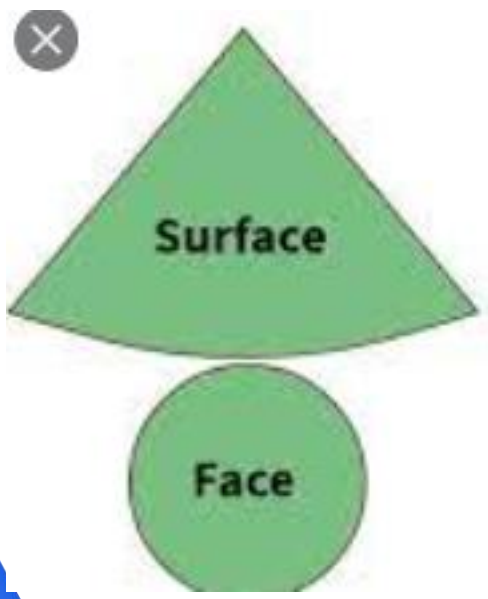
Edges	`Vertices	Faces
1	1	2

Square base Pyramid
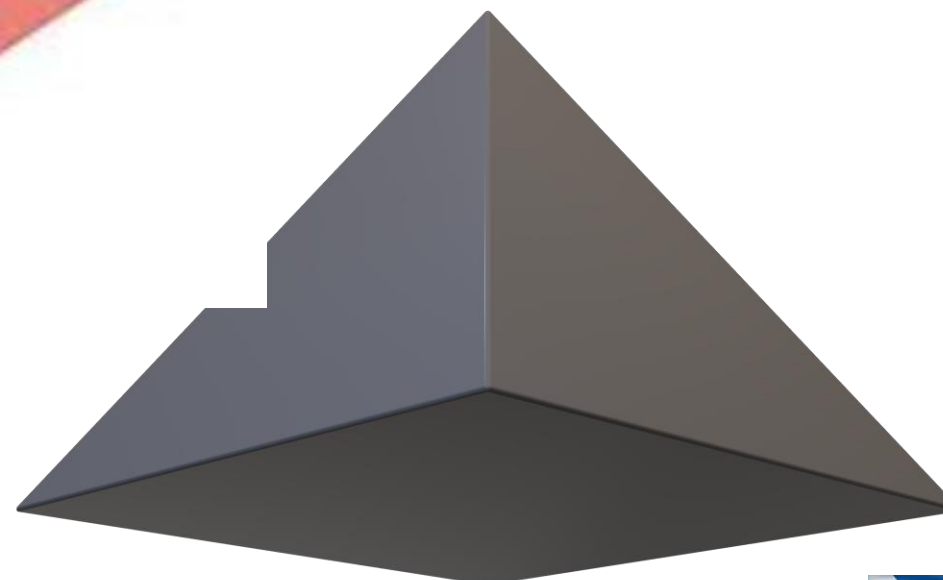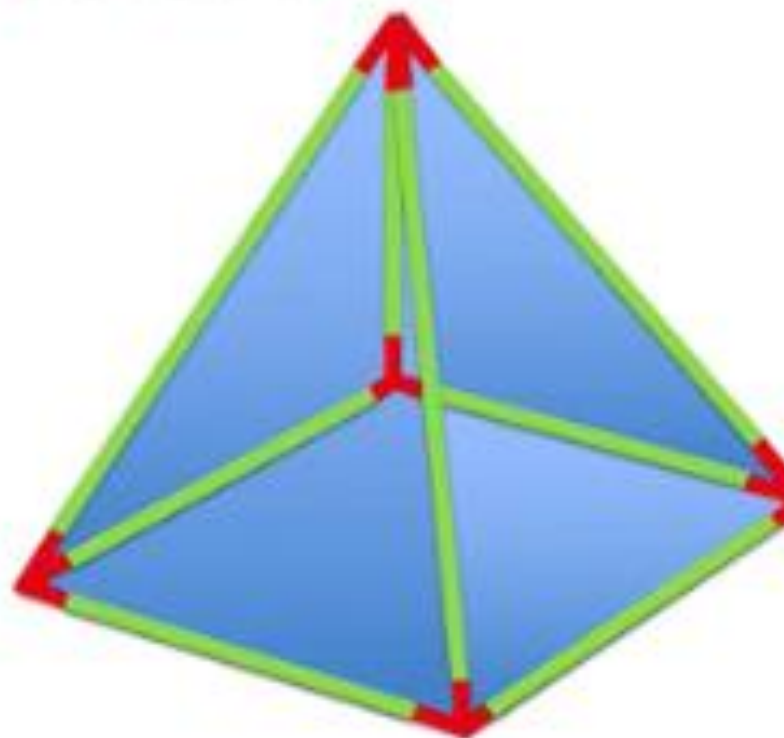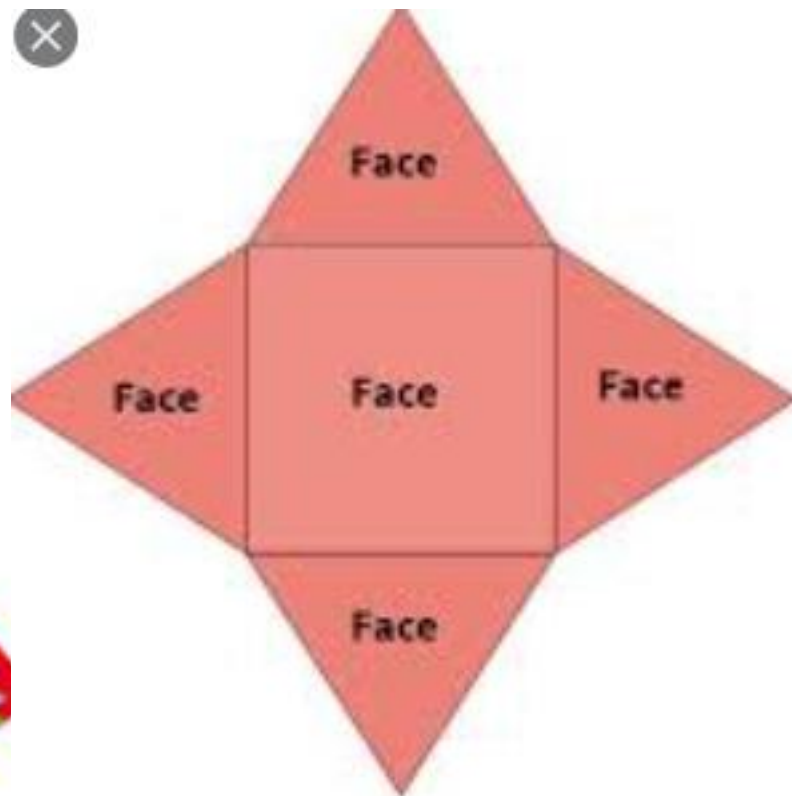
Face

Edges	`Vertices	Faces
8	5	5

Triangular prism

b

a

Right Triangle

c

h
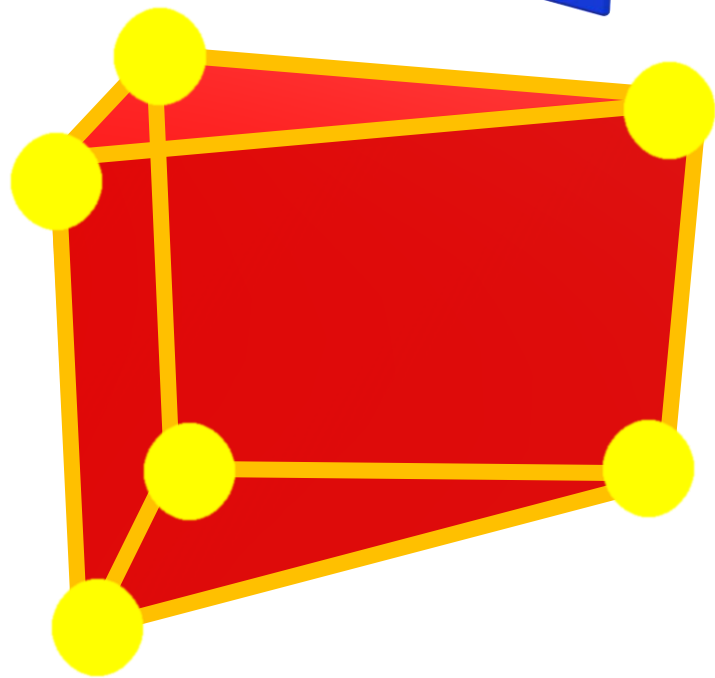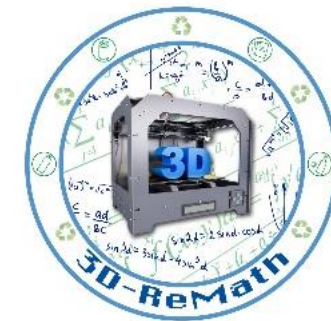
Edges	`Vertices	Faces
9	6	5

Cylinder

Edges	`Vertices	Faces
2	0	3
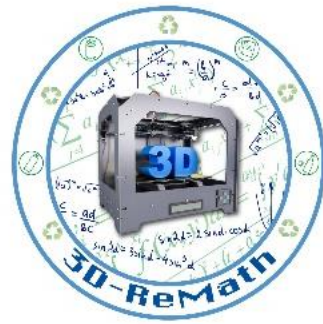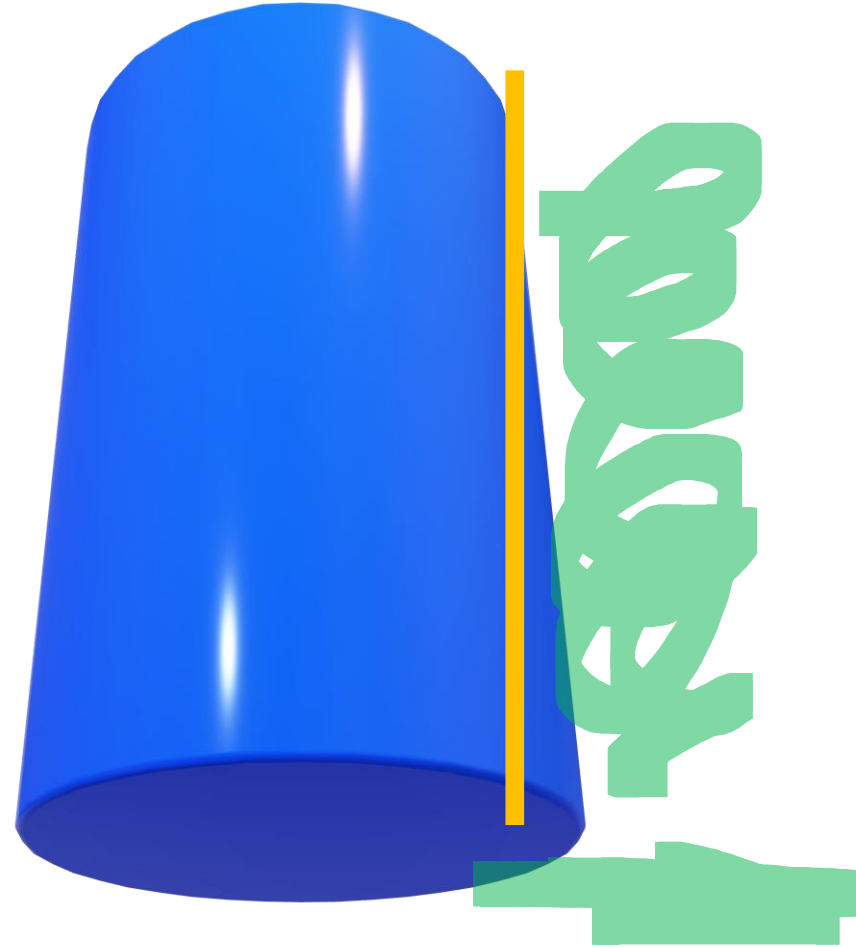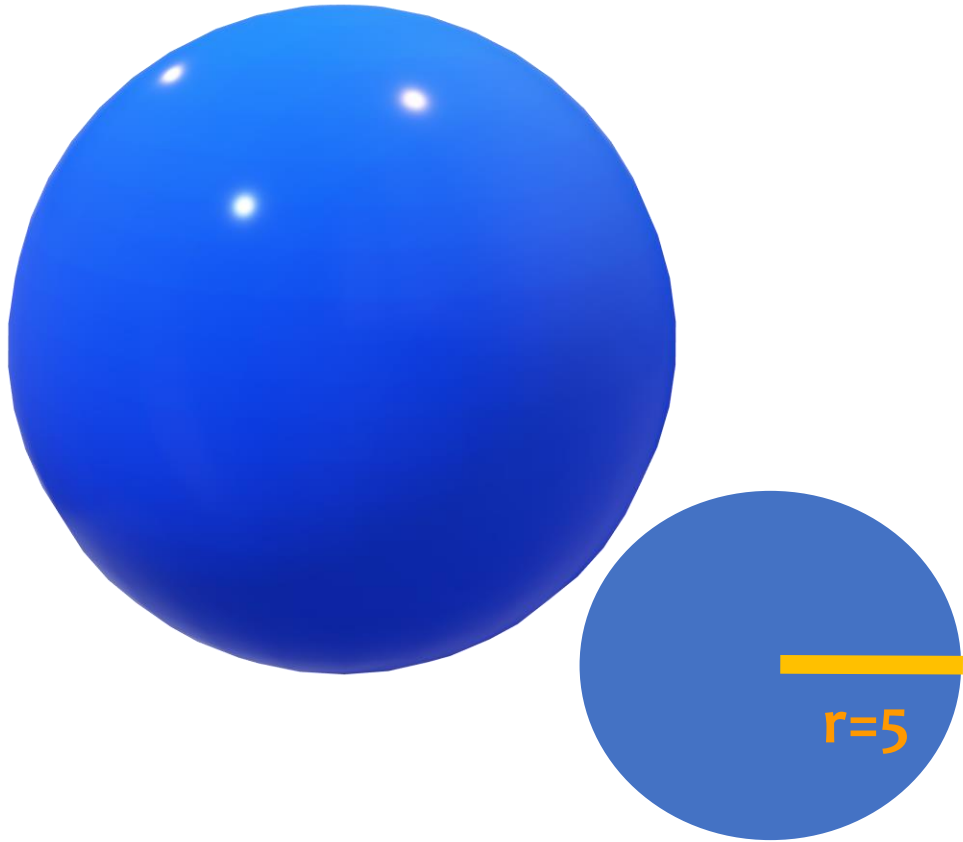
Sphere

r=5

Edges	`Vertices	Faces
0	0	1

Video

- https://www.youtube.com/watch?v=CYVmmTaqIPU
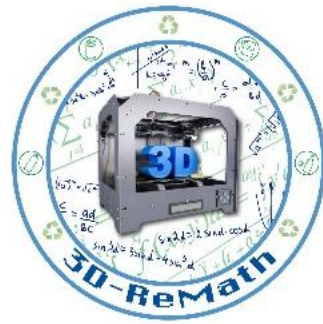
- https://www.youtube.com/watch?v=3-QwWFkz5hw
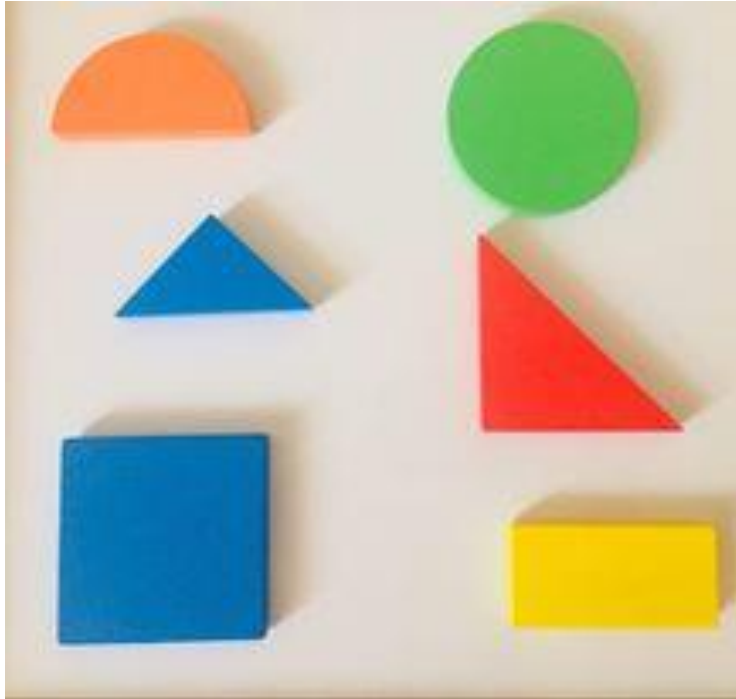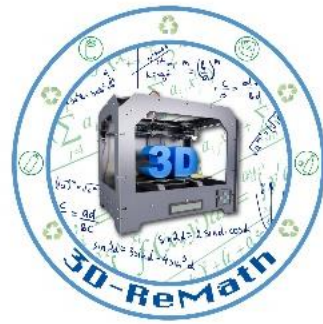
- https://www.youtube.com/watch?v=_XJ1A5io8vc

- https://www.youtube.com/watch?v=LEuFeXsqXXA

- https://www.youtube.com/watch?v=ZJ-VMcbLTaU