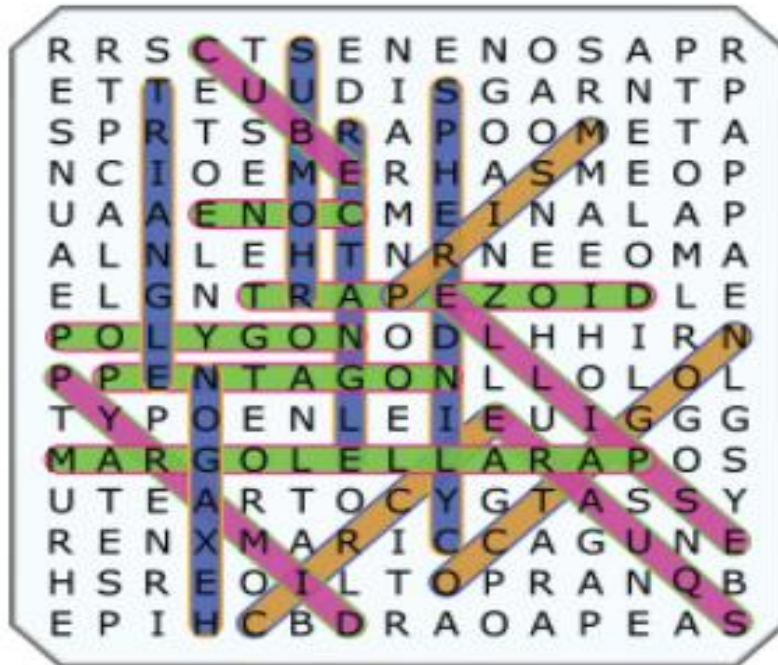


**SANGAM SKM COLLEGE - NADI**  
**YEAR 9 BASIC TECHNOLOGY WORKSHEET**  
**WEEK 4 2021 - SOLUTION**

**TOPIC: GEOMETRY 2D/3D SHAPES WORD PUZZLE**

Circle – 2D Shape where the edges are all the same distance from a center point.	Prism – 3D shape consisting of a stack of identical base shapes stacked on top of each other.
Cone – Special type of pyramid where the base is a circle.	Pyramid – 3D shape consisting of a polygon base and triangular faces meeting at a common point above the base.
Cube – 3D shape with all faces are composed of squares.	Rectangle – Special parallelogram where the interior angles are all right angles.
Cylinder – Special type of prism where the base shape is a circle.	Rhombus – Special parallelogram with equal sides and opposite angles are equal to each other.
Ellipse – An ellipse is a 2D shape where the path traced when the sum of the distances between two fixed points is a constant.	Sphere – 3D shape where each point of the surface is an equal distance from a center point.
Pentagon – 2D shape with five sides of equal length.	Square – Special parallelogram with all sides the same length.
Hexagon – 2D shape with six sides of equal length.	Trapezoid – Special parallelogram where two sides are parallel to each other.
Octagon – 2D shape with eight sides of equal length.	Triangle – 2D enclosed shape consisting of three connected sides.
Parallelogram – Closed 2D figure formed by four sides and the opposite sides are parallel to each other.	
Polygon – General name of a 2D closed shape	

These shapes can be found vertically, horizontally, and diagonally as well as forwards and backward.



Circle

Cone

Cube

Cylinder

Ellipse

Hexagon

Octagon

Parallelogram

Pentagon

Polygon

Prism

Pyramid

Rectangle

Rhombus

Sphere

Square

Trapezoid

Triangle

## DESIGN AND ENTERPRISING

### PART A

#### TRUE OR FALSE

1. Labour cost is calculated by multiplying the Labour Rate and Time consumed. **T**
2. Total cost in a project is calculated by adding Material + Labour cost **F**
3. One quality of an entrepreneur is to be innovative **T**
4. Recycling increases the cost of the design projects **F**
5. The first stage in design process is research **F**
6. The study of people in their working environment is called ergonomics **T**
7. Sustainable design is the philosophy of designing physical objects that will benefit many future generations without harming them. **T**
8. Buying of project materials is considered to be overhead cost. **F**
9. Dowels are inserted in the dowel joint. **T**
10. Collection of information is called Research. **T**

### PART B

In the given Pictorial crate box given below create your own designed shoe rack.



ROUND GALVANIZED TUBE    WIRE MESH