NG SANGAM HIGH SCHOOL

P.O.BOX 44, RAKIRAKI

WEEK 17 WORKSHEET

Subject: Basic Technology Year/Level: 10

Strand	BT10.5 GEOMETRICAL DRAWING
Sub Strand	BT 10.5.4 PYRAMIDS AND CONES
Content Learning Outcome	BT10.5.4.1 Develop skills in geometrical drawing of truncated pyramids and
	cones.

LESSON NOTES

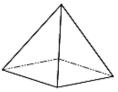
Triangular prism

Two triangular bases and three rectangular sides make a triangular prism. It falls in the category of a tetrahedron. It has 3 lateral faces and 2 triangular bases.

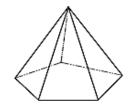
THE GEOMETRICAL SOLIDS

Pyramids

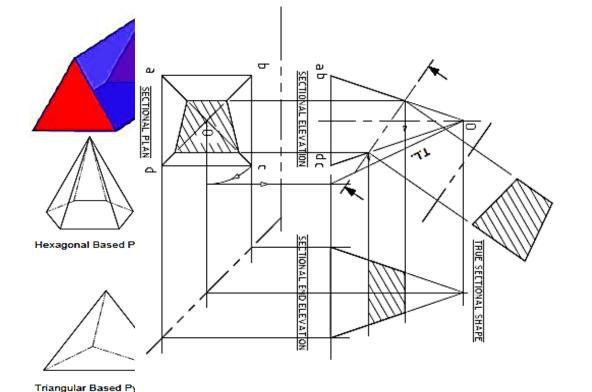
In technical drawing, objects are usually composed of an arrangement of geometrical solids, either in one peace or fastened together. An understanding of the geometrical solids is therefore essential before objects can be satisfactorily represented in technical drawing.

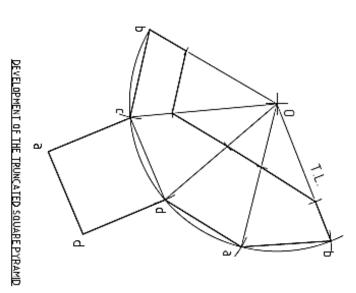


Square Based Pyramid



Pentagonal Based Pyramid





The axis of a solid is the imaginary line drawn from the centre of the top to the centre of the base of the solid. When the axis is at right angle to the base, it is called a right solid, and when the axis is inclined to the base or end of a solid it is called an oblique solid. When the edges of the base or end of a solid are equal, it is called regular.

A cube is a solid contained by six equal squares. The axis is the imaginary line joining the centres of the opposite sides. A cube can thus have three axes.

A right regular prism is a solid whose sides consist of equal rectangles, ad two equal ends. It is named by its ends. The axis is the line joining the centres of the ends. The axis is the line joining the centres of the ends. Examples of right regular prisms are: square prism, equilateral triangular prism, right pentagonal prism, etc. (A rectangular prism is not a regular prism).

> REQUIRED PLAN AND SECTIONED ELEVATION OF A RIGHT SQUARE PYRAMID AND PROJECT THE SECTIONAL END ELEVATION 14PE AND DRAW THE DEVELOPMENT METHOD

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STUDENT ACTIVITY

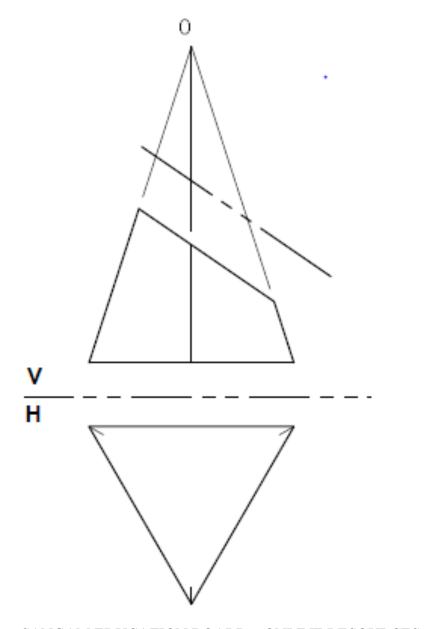
GIVEN: THE PLAN OF A TRUNCATED PYRAMID DRAWN IN FIRST ANGLE

ORTHOGRAPHIC PROJECTION.

REQUIRED: A. COMPLETE THE SECTIONAL PLAN

B. PROJECT THE TRUE SECTIONAL SHAPE C. DRAW THE FULL SURFACE DEVELOPMENT

D. LABEL ALL THE DRAWINGS.



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THE END