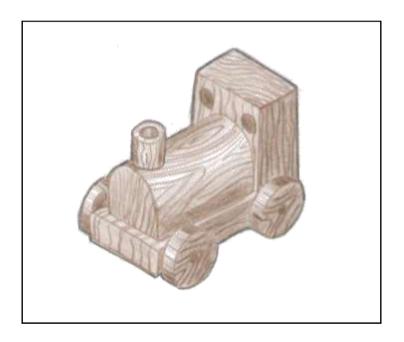
# INTRODUCTION TO MANUAL GRAPHICS

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SHADING RENDERING SKETCHING FORM PERSPECTIVE

# **SHADING**

TRACE THE TONAL SCALE CHART BELOW. SHADE USING COLOURED AND HB PENCILS.

LIGHT 1

2 3 5 4



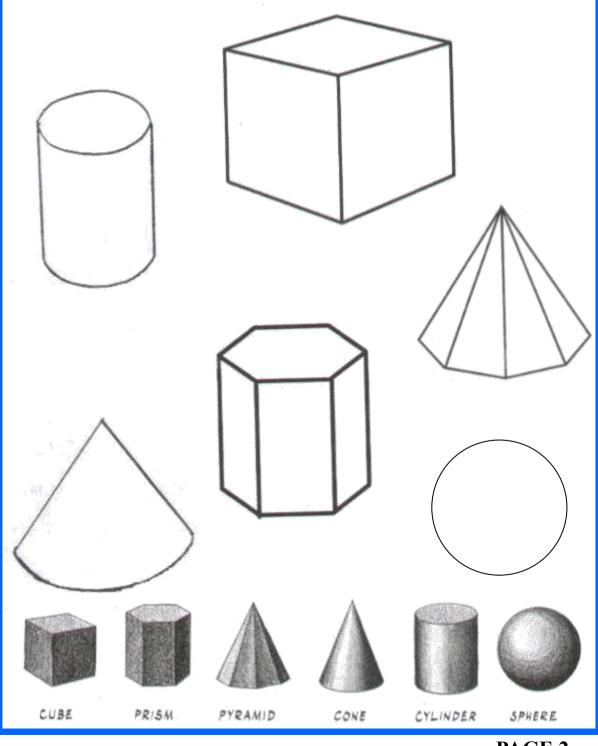
**USE FIG.1 TO HELP YOU SHADE YOUR OWN BOXES** 

Fig 1.

**DARK** 

## **SHADING SHAPES**

3) TRACE AND RENDER THE SHAPES BELOW USING THE EXAMPLES AT THE BOTTOM OF THE PAGE TO HELP YOU.



## **MATERIALS**

DRAW OR TRACE THE EXAMPLES BELOW AND COPY THE RENDER TO MAKE FLAT SURFACES REPRESENT THE FOLLOWING MATERIALS.

FIG.1 WOOD





FIG.2 SHINY PLASTIC

FIG. 3 REFLECTIVE SURFACE





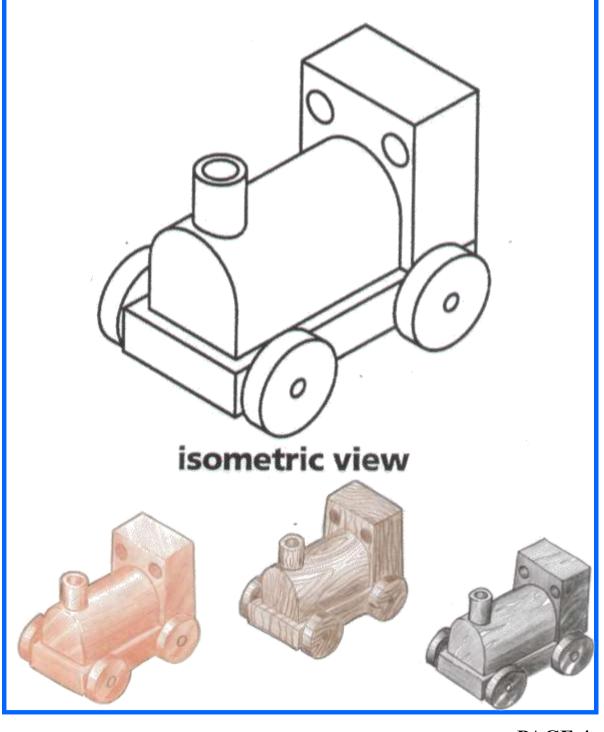
FIG. 4 ROUNDED HIGHLIGHTS

FIG. 5 SHINY METAL



## **RENDERING**

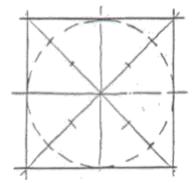
TRACE THE TRAIN BELOW AND RENDER TO MAKE IT LOOK LIKE WOOD, PLASTIC OR SHINY METAL. USE THE EXAMPLES ON PREVIOUS PAGE TO HELP YOU.



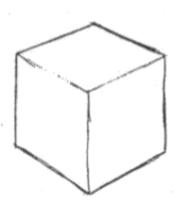
# **FORM**

### FORM IS THE 3-D IMAGE OF AN OBJECT

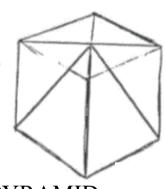
**SPHERE** 



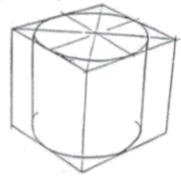
**CUBE** 



COMBINE THE CUBE AND CIRCLE TECHNIQUE TO PRODUCE A CYLINDER.

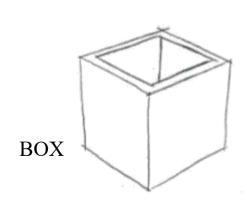


**PYRAMID** 

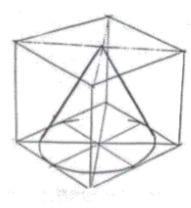


**CYLINDER** 

#### ATTEMPT THESE SHAPES BELOW

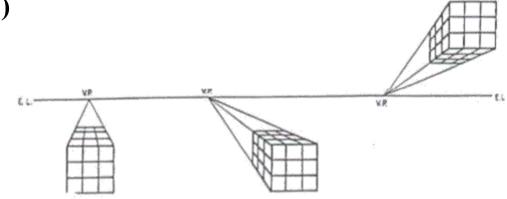


**CONE** 

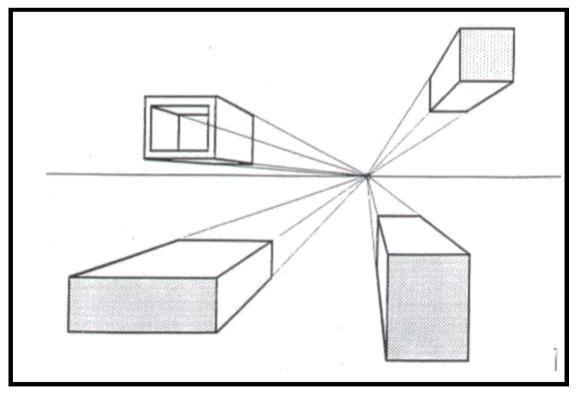


### 1 POINT PERSPECTIVE

SKETCHING IN PERSPECTIVE IS THE BEST WAY TO MAKE YOUR DRAWING LOOK REALISTIC. ONE POINT PERSPECTIVE USES ONLY ONE VANISHING POINT.
(V.P.)

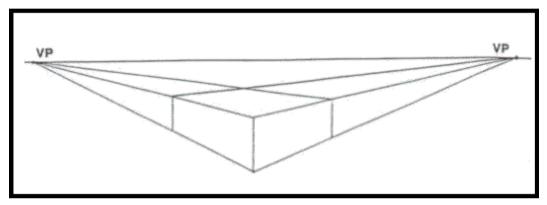


DRAW SOME BOXES OF DIFFERENT SHAPES AND SIZES ON A4 PAPER.



## **2 POINT PERSPECTIVE**

TWO POINT PERSPECTIVE SKETCHING USES TWO VANISHING POINTS.(V.P.) IT LETS YOU SKETCH BUILDINGS AND OBJECTS AT ANY ANGLE.



ON A4 PAPER SKETCH SOME BOXES IN DIFFERENT POSITIONS

