## DRAW ELLIPTICAL ORBITS: DIFFERENCE BETVEEN

## ELLIPSE

All planets and the moon travel in orbits that are more like ovals than perfect circles. These are called elliptical orbits. In this activity you will draw both a perfect circle and an ellipse so that you understand the difference.

## WHAT YOU NEED:


pins

pencil or pen

papers

## DRAN A CIRCLE



Put a pin in the center of a paper.


2
Make a loop with some string or yarn.


The string should be no longer than the width of the paper. (The length of the loop will be the radius of the circle.)

## DRAN AN ELLIPSE

1
Fold a paper in half lengthwise, then lay it flat.


Put a pin near the top on the fold and another near the bottom in the fold.


3 Loop a string around the two pins, but not too tightly.


4 Use the string as a guide, running a pencil along the string pulling it taut.


5 When you have gone around the entire loop, you will have drawn an ellipse.

