

Name \_\_\_\_\_

Date \_\_\_\_\_

West Islip Technology Department

Period \_\_\_\_\_

### Drawing Tools

#### Activity # 2

Read the directions below carefully and then draw the triangles, lines, ellipses, and circles required for each exercise. These exercises will be completed on a piece of 12 x 12 drawing paper, which will be divided into FOUR squares in the following manner:

- 1 vertical lines will be drawn 6" inches away from the end of the paper
- 1 horizontal line will be drawn 6" inches from the bottom/top of the paper

Your drawing layout should resemble the following:

1	2
3	4

**Exercise 1:** Draw each of the following ellipses using the ellipse template. ( $1 \frac{9}{16}$ ",  $1 \frac{3}{16}$ ",  $\frac{13}{16}$ ",  $\frac{5}{8}$ ") Place each ellipse in size order from largest to smallest, centered on a 5" straight line. Note: the ellipses should be evenly spaced from one another. The starting point should be 3" up and  $\frac{1}{2}$ " over from the bottom left hand corner of box 1.

*The ellipse template should be held on an angle to complete this activity.*

**Exercise 2:** Draw each of the following circles using the compass. Use the same center point for all circles. ( $4$ ",  $3 \frac{5}{8}$ ",  $2 \frac{1}{4}$ ",  $1 \frac{5}{16}$ ") The center point should be in the center of box 2.

**Exercise 3:** Draw 2 equilateral triangles. Equilateral triangle 1 should have a base of 4". Your starting point should be 1" up and 1" over. Equilateral triangle 2 should have a base of 2". Your starting point should be 2" up and 2" over. Lastly, draw a circle tangent to all three sides of triangle 2. You may use your circle template to draw the circle.

**Exercise 4:** Draw 5 lines parallel to each other, with a  $\frac{3}{4}$ " space between each line. The line sizes will be ( $4$ ",  $3$ ",  $2$ ",  $1$ ",  $\frac{1}{4}$ "). All lines must be centered left-to-right in box 4 using the same center line. Lastly, the first line should be  $1 \frac{1}{2}$ " up on the center line.