NAME:  CLASS:

MAKE YOUR OWN LŌKAHI WHEEL

This is a compass

This is a protractor

A = πr²

SCIENCE FACT: Long ago navigators noticed the sun’s position moved a little each day, as if in half circle around the Earth. This journey took half the year, which they thought was only 360 days. That’s why a circle has 360 degrees (or divisions) to create angles!

About ANGLES - An angle is made where 2 rays meet. This one can be called ∠ ABC, or “Angle ABC”

The middle letter, B, is always the VERTEX, where the lines or rays come together.

MATH FACTS:
PERPENDICULAR LINES form a RIGHT ANGLE, 90 degrees
ACUTE angles are less than 90 and more than 0 degrees
OBTUSE are more than 90° but less than 180° (a straight line)

Follow these steps to learn about ANGLES & make your own perfect PIE CHART.
TIP: Draw it free-hand the “easy way” or follow the steps below - just be sure to measure each section so that all 6 angles are correct!

1. Use a compass, protractor or large lid to draw a large perfect circle on a blank piece of 8” × 11½ paper.

2. Divide 360 degrees by 6: 360° ÷ 6 = ____° This gives the number of degrees each section of your Pie Graph should have.

3. Draw a line from the VERTEX, or center of your circle to any point on the outside edge. Now measure the degrees you need for each section and draw a 2nd line from the vertex to the outside edge. Repeat this until done.
4. THINK about which images show your own ideas about each part of the Lōkahi Wheel. You may change your original idea, but do not copy the images on the hand-out.