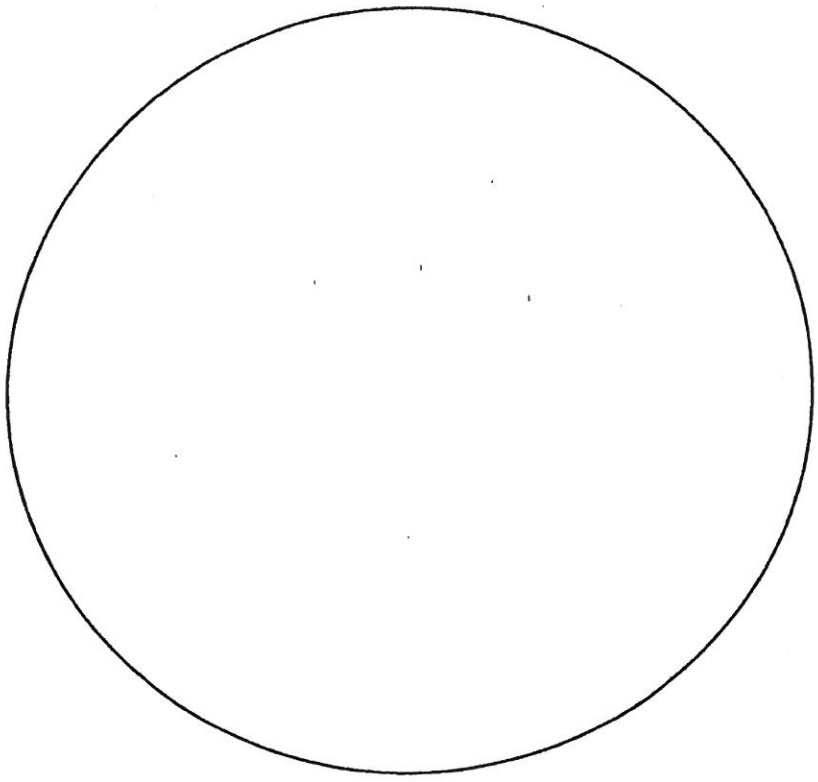
Name _____ Date _____ 

Circular Motion Activity



1) What do we mean when we say 'position?' How do you find position?

2) What do we mean when we say 'distance traveled?' How do you find distance traveled?

3) What do we mean when we say 'displacement?' How do you find displacement?

4) What is the diameter of this circle? _____ How did you figure this out?

5) What is the circumference of this circle? _____ How did you figure this out?

6) If an object made 1 revolution around this circle,

What is the distance traveled? _____

What is the displacement? _____

7) If an object made 2 revolutions around this circle,

What is the distance traveled? _____

What is the displacement? _____

8) If an object made 0.5 revolutions around this circle,

What is the distance traveled? _____

What is the displacement? _____

9) If an object made 4 revolutions around the circle,

What is the distance traveled? _____

What is the displacement? _____

10) If an object made 5.5 revolutions around the circle,

What is the distance traveled? _____

What is the displacement? _____

11) Why is an object traveling in a circle constantly accelerating?