

## Mathematics: Modeling Earth

### 5. Use a unit circle

For this activity, we will use a unit circle to model Earth's rotation. The unit circle is a circle with a radius of 1 unit. The circumference of the unit circle is  $2\pi$  units. The unit circle is a circle with a radius of 1 unit. The circumference of the unit circle is  $2\pi$  units. The unit circle is a circle with a radius of 1 unit. The circumference of the unit circle is  $2\pi$  units.



Figure 1: Unit Circle

1. Draw a unit circle on a coordinate plane. Label the x and y axes. What is the circumference of the unit circle? What is the radius of the unit circle? What is the diameter of the unit circle? What is the area of the unit circle?

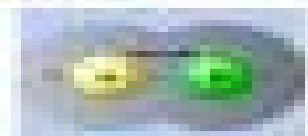
2. What is the length of the arc of the unit circle that subtends a central angle of  $\theta$  radians?

Use the unit circle to find the length of the arc of the unit circle that subtends a central angle of  $\theta$  radians. What is the length of the arc of the unit circle that subtends a central angle of  $\theta$  radians?

<b>Unit Circle</b>
Radius: 1 unit
Circumference: $2\pi$ units
Area: $\pi$ square units
Equation: $x^2 + y^2 = 1$
Parametric Equations: $x = \cos(t)$ , $y = \sin(t)$

### Figure 2: Unit Circle

3. Draw a unit circle on a coordinate plane. Label the x and y axes. What is the circumference of the unit circle? What is the radius of the unit circle? What is the diameter of the unit circle? What is the area of the unit circle?
4. Draw a unit circle on a coordinate plane. Label the x and y axes. What is the circumference of the unit circle? What is the radius of the unit circle? What is the diameter of the unit circle? What is the area of the unit circle?



5. Draw a unit circle on a coordinate plane. Label the x and y axes. What is the circumference of the unit circle? What is the radius of the unit circle? What is the diameter of the unit circle? What is the area of the unit circle?

# Phet Simulation Molecule Polarity Lab Answers

**Matthew Schnurr, Anna MacLeod**



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