

## What causes Earth's seasons?

Today you will be doing an experiment to test what factors control Earth's seasons. To start, you will need a hypothesis about why Earth has season. Write your hypothesis below:

**Hypothesis on why Earth has seasons?**

Great, now you're ready to start the experiment. Listen to your teacher for instructions on how to start.

**Experiment #1: Does sunlight intensity change with distance?**

Position	Real Earth to Sun Distance (km)	Experiment Earth to Sun distance (cm)	Light intensity
A			
B			
C			
D			

**Experiment #2: Does sunlight intensity change with location?**

Position	Real Earth Sun Distance (km)	Experiment Earth Sun Distance (cm)	Light intensity at equator	Light intensity in Northern Hemisphere	Light intensity in Southern Hemisphere
A					
B					
C					
D					

**Think about the data you have collected. Is your hypothesis correct? Use the space below to write why you think your hypothesis is correct or incorrect.**