# **Causes of Seasons Activity for Kids**



### Light Intensity Observer DIY

GENERATION**GENIUS** 



Difficulty: Easy



See the difference in light intensity at different angles!

### **Material List**

#### Instructions

Flashlight or phone light Tape the straw to the toilet paper tube. **Toilet Paper Tube** Turn on the flashlight and shine it through the tube on to the graph paper Sheet of Graph Paper 3 Trace the circle of light with the marker, making sure to keep it Straw straight. **Different Colored Markers** Repeat the process with the tube at a 45° angle. Roll of Tape Trace the new oval of light with a different colored marker. Observe the difference!

# **How It Works**

When the light is shined at an angle, the same amount of light spreads out, which makes it less intense. The smaller the angle, the more it spreads out. Differences in light intensity, due to the Earth's tilt, are what cause seasons. The light intensity is highest in the summer and lowest in the winter.







