

SEASONS DAY 5 - EARTH'S TILTED AXIS

1. Model a Year

Model the Earth orbiting the Sun, using the Seasons sheet on your table as a guide. **Be sure to always point your Earth's axis in the direction given by the instructor.**

- Place your team's Seasons sheet on the table, matching the orientation with the signs around the room. Place your Sun on the Seasons sheet.
- Each team member should stand around your table at the Seasons positions marked.
- Summer team member: hold Earth on the side of the Sun that represents Summer, keeping the Earth's axis oriented correctly.
- Pass the Earth to the Fall team member, always keeping the axis pointed in the correct direction.
- Complete a Year by passing the Earth to the Winter and Spring team members, and back to Summer.

2. Model a Day at Different Times of Year

- Summer: Rotate Earth at the Summer position, so your Lego person experiences both night and day. Teammates should check that the axis orientation remains correct.
- Pass Earth to the Fall team member. Spin the globe on its axis to make your Lego person experience Day and Night during this season. Teammates should check that the axis orientation remains correct.
- Repeat for the other 2 seasons.

3. Observe from the Model

When Earth experiences SUMMER in the Northern Hemisphere,

- the Northern axis is tilted _____ the Sun
<towards/away from>
- the Southern axis is tilted _____ the Sun
<towards/away from>
- To see the Sun at midday, Lego person has to look _____ , _____ in the sky.
<up / ahead> <high/low>

When Earth experiences WINTER in the Northern Hemisphere,

- the Northern axis is tilted _____ the Sun
<towards/away from>
- the Southern axis is tilted _____ the Sun
<towards/away from>
- To see the Sun at midday, Lego person has to look _____ , _____ in the sky.
<up / ahead> <high/low>