

Tilted Season Cycle

Follow Earth through one year.

6.3.d "Earth's tilt as it revolves around the sun causes the seasons; and"

NAME _____

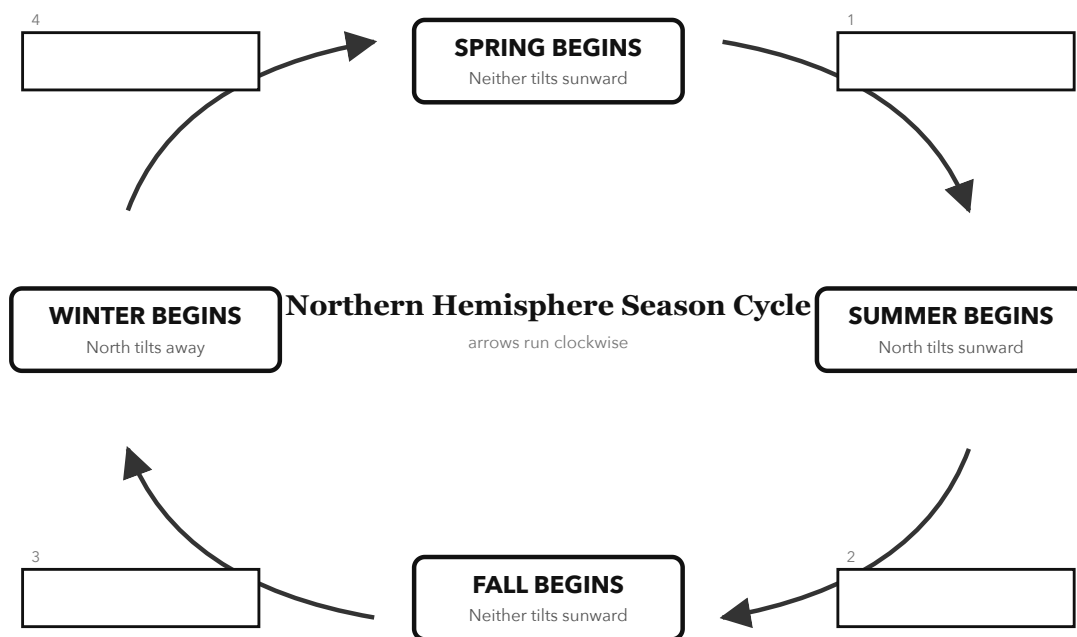
DATE _____

1 LABEL THE MODEL _____ Word bank below

Read the stages in arrow order. Write one word-bank process in each numbered box. You may use a process more than once. Some processes are used more than once.

WORD BANK

Earth completes 1/4 orbit



2 RUN THE MODEL Use your finished diagram

1 What process happens between every pair of season stages?

2 At which stage does the Northern Hemisphere tilt away from the Sun?

3 How much of its orbit does Earth complete from SUMMER BEGINS to WINTER BEGINS?

3 CHECK IT Before you turn it in

☐ I filled every numbered box.

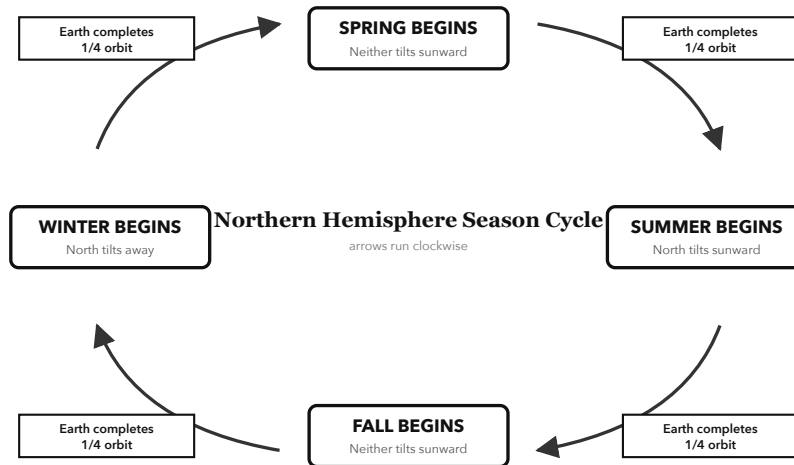
☐ I traced the stages in arrow order.

☐ I showed Earth completing an orbit.

TEST THE MODEL

What is one real detail about seasons that this model leaves out?

PART 1 • COMPLETED MODEL



PART 2 • RUN THE MODEL

1. **Earth completes 1/4 orbit.** (What process happens between every pair of season stages?)
2. **WINTER BEGINS** (At which stage does the Northern Hemisphere tilt away from the Sun?)
3. **One-half of its orbit.** (How much of its orbit does Earth complete from SUMMER BEGINS to WINTER BEGINS?)

TEST THE MODEL (SAMPLE ANSWERS)

- It leaves out changing day length during each season.
- It leaves out that the Southern Hemisphere has opposite seasons.

Each numbered arrow is labeled "Earth completes 1/4 orbit." The stage descriptions refer to the Northern Hemisphere and show how Earth's tilted axis faces the Sun differently as Earth revolves.