

Seasons in Motion

Trace why the seasons repeat.

4.6.b “the causes for Earth’s seasons;”

NAME _____

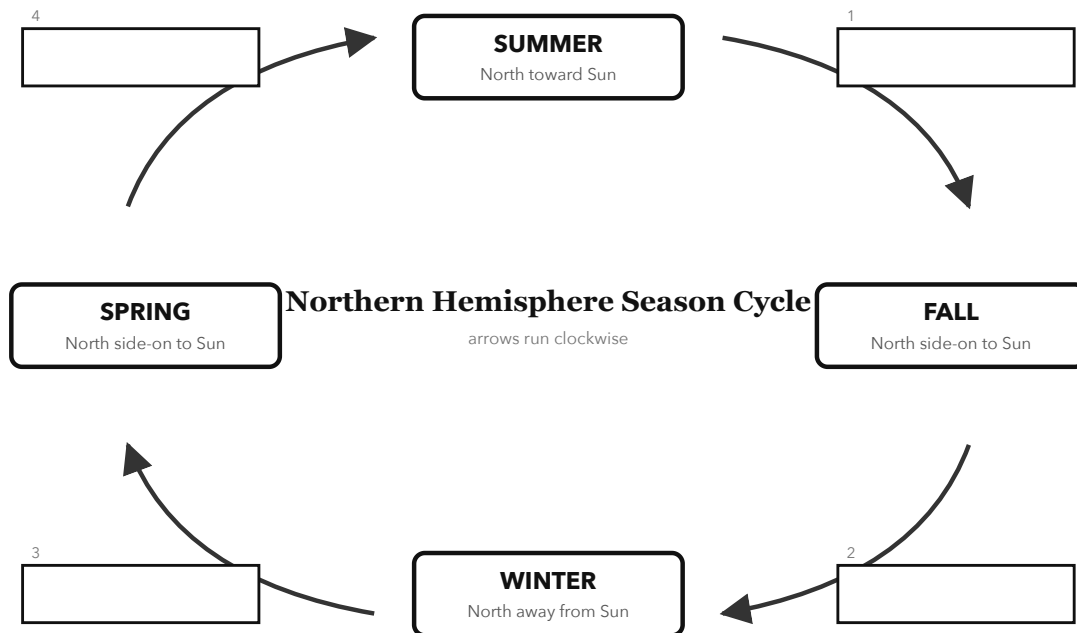
DATE _____

1 LABEL THE MODEL _____ Word bank below

Write one word-bank process in each numbered box. Use the arrows to show what moves Earth from one season to the next. Some processes are used more than once.

WORD BANK

Earth orbits, axis steady



2 RUN THE MODEL Use your finished diagram

1 Which season comes after fall in the model?

2 Which two seasons show the North side-on to the Sun?

3 What motion appears on every arrow in the model?

3 CHECK IT Before you turn it in

☐ I wrote a process in every box.

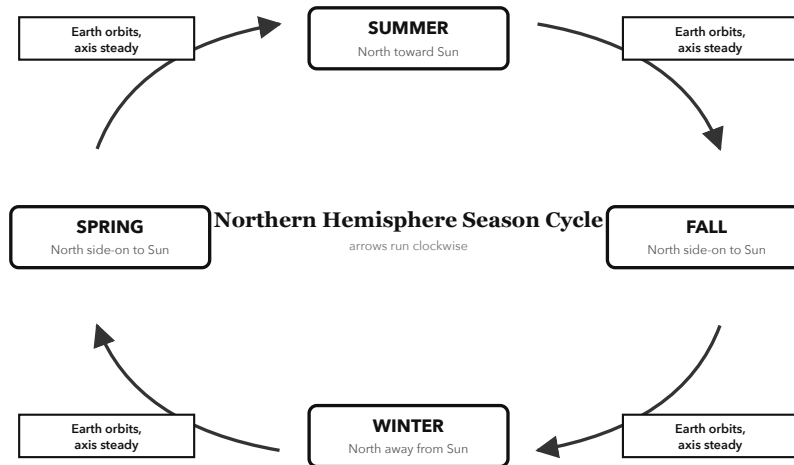
☐ I followed the arrows around the loop.

☐ I used the word bank.

TEST THE MODEL

What does this model leave out about the real Earth-Sun system?

PART 1 • COMPLETED MODEL



PART 2 • RUN THE MODEL

1. **Winter.** (Which season comes after fall in the model?)
2. **Fall and spring.** (Which two seasons show the North side-on to the Sun?)
3. **Earth orbits while its axis stays steady.** (What motion appears on every arrow in the model?)

TEST THE MODEL (SAMPLE ANSWERS)

- It leaves out that the Southern Hemisphere has opposite seasons.
- It leaves out changes in daylight length during each season.

Each numbered box should say: Earth orbits, axis steady. The model shows Northern Hemisphere seasons, with Earth's tilted axis keeping nearly the same direction as Earth orbits.