Name _____

Designing Earth's Year in Motion

Mission: Create a **timeline of Earth's journey around the Sun**, labeling important events that mark the **changing of seasons** in the Northern Hemisphere.

Instructions: Below is a blank **yearly orbit timeline**. The Sun is in the center. Earth moves counterclockwise around it. Fill in the missing labels using the **word bank** and clues.

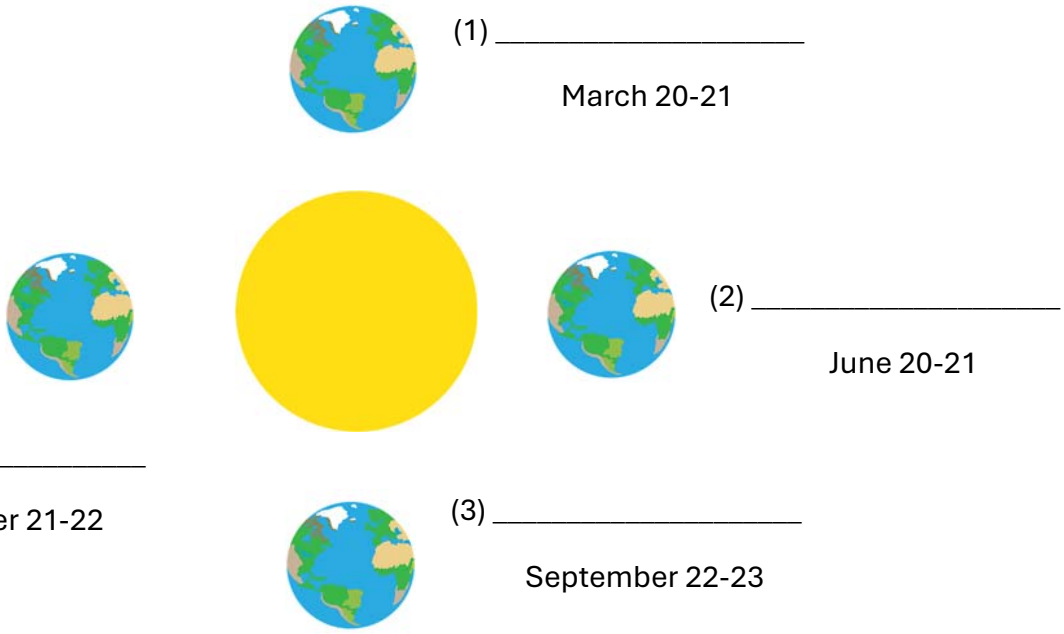
Word Bank

Fall Equinox

Summer Solstice

Spring Equinox

Winter Solstice



(1) _____

March 20-21

(2) _____

June 20-21

(3) _____

September 22-23

(4) _____

December 21-22

Part 2: Timeline Events Matching

Match each **event** with what it means. Write the correct event name next to its description.

A. The longest day of the year in the Northern Hemisphere: _____

B. Day and night are equal in length; start of autumn: _____

C. Day and night are equal in length; start of spring: _____

D. The shortest day of the year in the Northern Hemisphere: _____

Bonus Challenge: Why do these events happen each year around the same dates? Use what you know about Earth's **tilt** and **revolution** to explain.