Name _____

Designing Earth's Year in Motion Answer Key

Timeline Diagram Labels:

1. **Spring Equinox (March 20–21)**
2. **Summer Solstice (June 20–21)**
3. **Fall Equinox (September 22–23)**
4. **Winter Solstice (December 21–22)**

Timeline Events Matching:

A. **Summer Solstice**
B. **Fall Equinox**
C. **Spring Equinox**
D. **Winter Solstice**

Bonus Answer (Sample Response):

These events happen around the same dates each year because **Earth's orbit around the Sun takes about 365 days**, and Earth is **tilted on its axis at about 23.5 degrees**. This tilt causes different parts of the Earth to receive different amounts of sunlight throughout the year, creating **seasons** and marking key points like equinoxes (equal day/night) and solstices (longest/shortest day).