

Objective – Students will understand how Earth's tilt on its axis changes the length of daylight and creates the seasons.

Bill Nye: Seasons Video Worksheet

- In June, people in Australia called the season...
 - Autumn
 - Spring
 - Summer
 - Winter
- This force keeps the Earth in orbit around the Sun.
 - Electromagnetic
 - Gravity
 - Strong
 - Weak
- As summer approaches, the Earth is moving _____ the Sun.
 - away from
 - neither away nor towards
 - towards
- This is the average of the weather at a place over a long period of time.
 - Atmosphere
 - Climate
 - Easterly wave
 - Environment
- Earth spins on its axis
 - True
 - False
- This causes the seasons.
 - The distance the Earth is from the Sun.
 - The rotation of the Earth.
 - How close the Moon is to the Earth.
 - The tilt of the Earth.
- The Earth spins on its axis with a tilt of about...
 - $21\frac{1}{4}^\circ$
 - $89\frac{3}{4}^\circ$
 - $23\frac{1}{2}^\circ$
 - $47\frac{1}{2}^\circ$
- When Earth is tilted towards the Sun we receive _____ Sun rays.
 - direct
 - indirect

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9. When Northern Hemisphere tilts towards the Sun its summer. The Southern Hemisphere tilts _____ from the Sun and it is winter.

- a. Near
- b. Neither towards nor away
- c. Away

10. Summer and winter are not caused by the Earth moving farther away from the Sun.

- a. True
- b. False

11. Shep Sherman was found...

- a. guilty.
- b. not guilty.

12. When it’s spring in Paris, it’s _____ in Australia.

- a. Autumn
- b. Spring
- c. Summer
- d. Winter

13. Seasons in the Northern Hemisphere and Southern Hemisphere are...

- a. the same.
- b. reversed.

14. This type of ray from the Sun are concentrated on a small area.

- a. Direct
- b. Indirect

15. The Earth stays tilted as it goes around the Sun.

- a. True
- b. False

16. When you’re on the part of the Earth that faces towards the Sun, it’s...

- a. daytime.
- b. nighttime.

17. When the solar panel in the south moves the fastest, it is getting this type of energy from the Sun.

- a. Direct
- b. Indirect

18. The days are longest and warmest during this season.

- a. Autumn
- b. Spring
- c. Summer
- d. Winter

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19. This is why the Sun and Moon rise and set.

- a. The Earth's revolution.
- b. The Earth's gyration.
- c. The Earth's orbit.
- d. The Earth's rotation.

20. It can be summer in Alaska and winter in Argentina because...

- a. the Earth revolves.
- b. the Earth gyrates.
- c. the Earth tilts.
- d. the Earth rotates.

21. A year is 365 $\frac{1}{4}$ days long because that's how long the Earth takes to go around the Sun.

- a. True
- b. False

22. The shortest day of the year in the Northern Hemisphere is in December and called the...

- a. Autumnal Equinox.
- b. Summer Solstice.
- c. Vernal Equinox.
- d. Winter Solstice.

23. When day and nights are the same length all over the world, this is called the...

- a. Solstices.
- b. Equinoxes.

24. The Earth is going around the Sun and is tilted. This is why we have...

- a. daytime.
- b. nighttime.
- c. seasons.