

# Space Science Survey

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\* Required

Initials \*

Your answer

Ethnicity \*

- American Indian or Alaska Native
- Asian
- Black or African American
- Native Hawaiian or other Pacific Islander
- White
- I do not wish to respond
- Other: \_\_\_\_\_

Gender \*

- Male
- Female
- Decline to Answer

Grade \*

Choose

Instructions:

Choose one circle between each adjective pair to indicate how you feel about space science.

To me, space science is \*

Fascinating  1  2  3  4  5  6  7 Ordinary

To me, space science is \*

Appealing  1  2  3  4  5  6  7 Unappealing

To me, space science is \*

Exciting  1  2  3  4  5  6  7 Unexciting

To me, space science is \*

Means nothing  1  2  3  4  5  6  7 Means a lot

To me, space science is \*

Boring  1  2  3  4  5  6  7 Interesting

Instructions: Rate each statement on a scale of 1-5, 1=Strongly disagree, 5=Strongly agree \*

1 2 3 4 5

I want to learn more about space science.  1  2  3  4  5

I want to learn more about Mars.  1  2  3  4  5

I want to learn more about the sun.  1  2  3  4  5

I would like to have a career space science.  1  2  3  4  5

I would like to know more about space travel.  1  2  3  4  5

I believe weather that occurs in space can impact my life.  1  2  3  4  5

I believe exploring space can teach us things about the earth.  1  2  3  4  5

Innovative technologies make learning more engaging.  1  2  3  4  5

Innovative technologies help me learn.  1  2  3  4  5

Using technology to learn gives me more control over my learning.  1  2  3  4  5

I plan to have a career in: \*

- Science
- Technology
- Engineering
- Mathematic
- Other: \_\_\_\_\_

Please select the answer you think is most correct.

1. Our sun is a medium-sized star located in a spiral arm of: \*

- the Sombrero Galaxy
- the Whirlpool Galaxy
- the Milky Way Galaxy
- the Grand Spiral Galaxy

2. As the moon orbits earth, it cycles through \_\_\_ distinct phases. \*

- six
- eight
- four
- two

3. An eclipse is defined as an astronomical event that occurs when one celestial object moves \_\_\_\_\_ another, partially or fully obscuring it from view. \*

- next to
- in front of
- in back of
- on top of

4. Which type of eclipse occurs when the Sun is completely obscured by the moon? The Sun is replaced by only a dark silhouette of the moon. The corona of the Sun is still visible, but only faintly. \*

- Total eclipse
- Annular eclipse
- Partial eclipse
- Hybrid eclipse

5. What is the average duration of 'totality' in a total solar eclipse? \*

- 10 - 20 seconds
- 2 - 7 minutes
- 1 - 2 hours
- 1-2 days

6. The purpose of the Parker Solar Probe is to help scientists... \*

- accurately predict space weather effects that can cause problems on Earth.
- determine the temperature of the Sun.
- find out the distance from the earth to the Sun.
- learn how the Sun interacts with Venus and Mars.

7. The sun's outer layer that reaches temperatures up to 2 million degrees Fahrenheit (1.1 million degrees Celsius) is known as: \*

- the ionosphere
- the corona
- the heliosphere
- the crust

8. The solar wind continuously flows outward from the Sun and consists mainly of protons and electrons in a state known as: \*

- light
- radio waves
- plasma
- pulsars

9. One kind of solar storm is called a coronal mass ejection in which the sun produces a huge bubble of electrified gas traveling toward the earth. When it comes toward the earth, it hits the magnetic field and small particles travel down the lines at the north and south poles creating: \*

- electromagnets
- changes in seasons
- auroras
- eclipses

10. Predicting space weather allows scientists to protect: \*

- spacecraft
- astronauts
- communication
- all of the above

11. Sunspots are large, dark regions of the sun called umbra. The sun spots are \_\_\_\_\_ the surrounding surface of the sun. \*

- the same temperature as
- cooler than
- hotter than
- either hotter or colder than

12. A solar maximum is a period during the solar cycle with \_\_\_\_\_. \*

- changes in the Earth's magnetic field
- an increase in solar eclipses
- least activity
- most activity

13. A solar cycle typically takes approximately \_\_\_ years to complete. \*

- 3
- 11
- 20
- 50

14. The KP index measures... \*

- the distance from the Earth to the Sun
- the temperature of the Sun
- changes in the Earth's magnetic field
- solar flare activity

15. What is the purpose of the earth's magnetic field? \*

- to prevent meteorites from hitting the earth
- to create dark skies at night
- to produce clouds and rain
- to shield the earth from solar particles

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