

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Class: \_\_\_\_\_

1 What term best characterizes the sun?

- A Very old star
- B Mid-sequence star
- C Very young star
- D Red giant

2  How many earths could fit inside the sun?


- A One hundred
- B One thousand
- C One million
- D One billion

3 The Sun's radiation is responsible for earth's \_\_\_\_\_.

- A Temperature
- B Magnetic field
- C Rotation
- D Atmosphere

4 Where can you find the photosphere?

- A At the surface of the sun
- B In the earth's atmosphere
- C Deep within the sun
- D 1,000 km away from the sun

5  How much hotter is the core of the sun than its surface? Choose the best answer.

- A More than 100 times
- B More than 1,000 times
- C More than one million times
- D More than one billion times

6 Which two elements make up the sun?

- A Carbon and nitrogen
- B Hydrogen and oxygen
- C Oxygen and carbon
- D Hydrogen and helium

7 What can you infer about helium from the fact that it's made by nuclear fusion reactions inside the sun?

- A It's heavier than hydrogen
- B It's lighter than hydrogen
- C It's heavier than oxygen
- D It's heavier than carbon

8 What is the relationship between the sun and life on earth?

- A The sun damages life on earth
- B The sun powers life on earth
- C The sun protects life on earth
- D The sun causes plants to wither and die

9  What causes the seasons?

- A Changes in the sun's intensity
- B The earth's changing distance from the sun
- C The tilt of the earth on its axis
- D The earth's rotation

10 What effect does the sun's electromagnetic field have?

- A It causes dark patches called sunspots
- B It causes the sun to rotate
- C It causes fusion reactions
- D It causes the sun to shine