

## Assessment Tools – Stormy the Solar Storm Student Version (Questions Only)

### 1. Multiple Choice

Q1. What causes auroras in the sky?

- a) Rainbows
- b) Solar storms
- c) Earthquakes

Q2. Which NASA spacecraft flies closest to the Sun?

- a) Hubble Telescope
- b) Parker Solar Probe
- c) ISS

Q3. What protects Earth from most solar storms?

- a) Magnetosphere
- b) Atmosphere
- c) Clouds

Q4. Farmers rely on GPS to:

- a) Play video games
- b) Plant crops in straight rows
- c) Listen to music

Q5. Which scale is used to measure geomagnetic storms?

a) G-scale

b) R-scale

c) F-scale

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### 2. True or False

Q6. Solar storms can disrupt GPS signals used by farmers.

Q7. Pilots never worry about space weather.

Q8. Astronauts sometimes hide in shielded areas during solar storms.

Q9. Satellites warn Earth about incoming solar storms.

Q10. Auroras only happen at the South Pole.

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### 3. Match the Pairs

Stormy → \_\_\_\_\_

Nora → \_\_\_\_\_

Sammy → \_\_\_\_\_

Parker → \_\_\_\_\_

Farmer Lila → \_\_\_\_\_

Astronaut Kai → \_\_\_\_\_

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#### ### 4. Fill in the Blanks

Q11. Earth's invisible shield is called the \_\_\_\_\_.

Q12. The beautiful lights caused by solar storms are called \_\_\_\_\_.

Q13. The Sun sends out \_\_\_\_\_ and \_\_\_\_\_ that can affect Earth.

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#### ### 5. Short Answer

Q14. Why do pilots care about space weather?

Q15. How does NASA protect astronauts from solar radiation?

Q16. Why are satellites like Sammy important for Earth?

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#### ### 6. Creative Task

Q17. Imagine you are Stormy the Solar Storm. Write a short diary entry about your trip from the Sun to Earth.

Q18. Draw your favorite character (Stormy, Parker, Nora, etc.) and write one sentence about how they help Earth.

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## Teacher Answer Key

Q1 → b) Solar storms

Q2 → b) Parker Solar Probe

Q3 → a) Magnetosphere

Q4 → b) Plant crops in straight rows

Q5 → a) G-scale

Q6 → True

Q7 → False

Q8 → True

Q9 → True

Q10 → False

Q11 → Magnetosphere

Q12 → Auroras

Q13 → Solar flares, CMEs

Q14 → Radio blackouts → communication lost

Q15 → Astronauts move to shielded areas

Q16 → Satellites warn Earth about incoming solar storms.