



Read the space science story carefully. Then answer each question below in a full sentence.

Look for the cause — the discovery or event — and trace each effect it produced. Space events can have surprising effects right here on Earth!

Cosmic Static

One sunny morning, Maya and her dad were using their car's GPS to find a new park. Suddenly, the screen went blank! "Oh no," Dad said, "it looks like our GPS isn't working." At the same time, their favorite radio station started making strange crackling noises.



What Maya didn't know was that a huge solar flare had erupted from the Sun. NASA scientists had watched it happen and sent out warnings. This burst of energy traveled millions of miles to Earth. When it hit, it caused a strong magnetic storm in our planet's atmosphere.

This storm made it hard for radio waves to travel and messed up signals from satellites high above Earth. Because of this, GPS devices like Maya's stopped working, and radio programs had static. Scientists at NASA study these solar flares carefully to learn how to protect our technology from future space weather events. 🚀

COMPREHENSION QUESTIONS

- (1) **What happened to Maya's car GPS and radio station during the solar flare?** 📺
- (A) They started working better than ever.
 - (B) The GPS screen went blank and the radio had static.



- (C) They showed a map of the Sun.
- (D) They turned off completely and could not be restarted.

(2) What caused the GPS devices to stop working and the radio programs to have static? ⚡

(3) What do NASA scientists do when a solar flare happens? 🧑🔬

(4) How far did the energy from the solar flare travel to reach Earth? 🌞

(5) Describe how a solar flare led to problems with Maya's GPS and radio. 📡



(6) What might have happened if NASA scientists had not watched the solar flare? Explain.



