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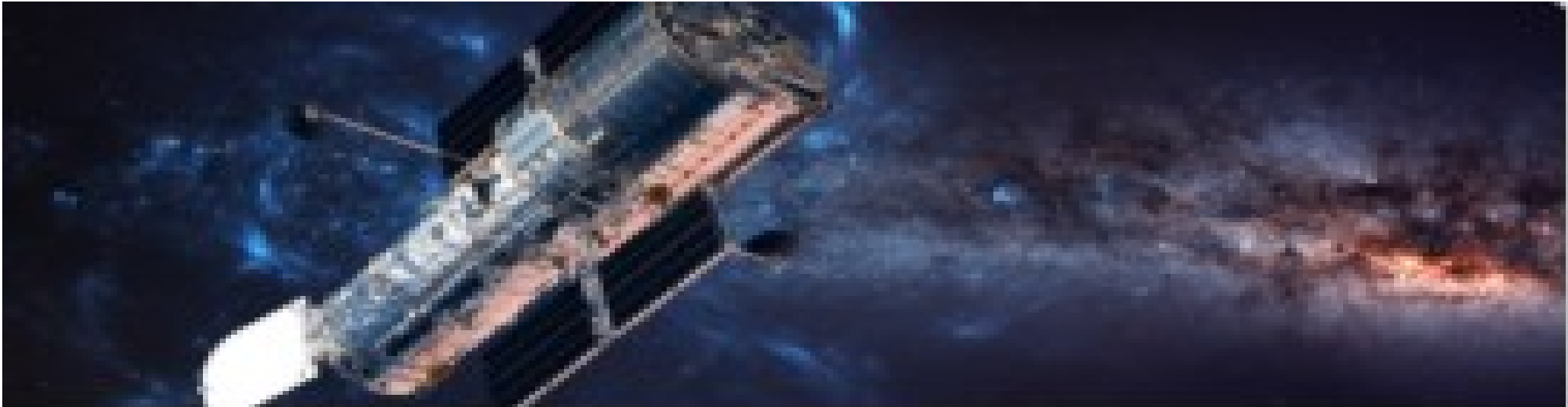
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Grade 7: Term 3 : Lesson 1

- Check my understanding 1



1. Exploring the Universe (3 periods)

Check my understanding 1:

QUESTION 1

Select your answer from the drop-down menu.

Gamma rays have the shortest wavelength and the highest amount of energy. This means the stars that emit them are .

QUESTION 2

Select your answer from the drop-down menu.

Waves with wavelengths on the electromagnetic spectrum have higher energy.

QUESTION 3

Select your answer from the drop-down menu.

High temperature ✓ ▼ stars emit shorter wavelengths, like X-rays and ultraviolet waves.

QUESTION 4

Select your answer from the drop-down menu.

Low temperature ✓ ▼ stars emit mostly infrared and radio waves.

QUESTION 5



At what speed does light travel?

600,000 m/s

300,000 km/s ✓

300 km/s

400,000 km/hour

QUESTION 6



Select your answer from the drop-down menu.

High temperature stars emit shorter wavelengths, like X-rays and .

QUESTION 7

Select your answer from the drop-down menu.

Low temperature stars emit mostly and radio waves.

QUESTION 8

Select your answer from the drop-down menu.

The radiant energy that is emitted by stars is in the form of .

QUESTION 9



What do planets and moons do with light?

They make light.

They reflect light. ✓

They emit light.

They absorb light.

QUESTION 10



Select your answer from the drop-down menu.

Waves with shorter wavelenaths on the electromagnetic spectrum have higher ✓ ▾ energy.

QUESTION 11



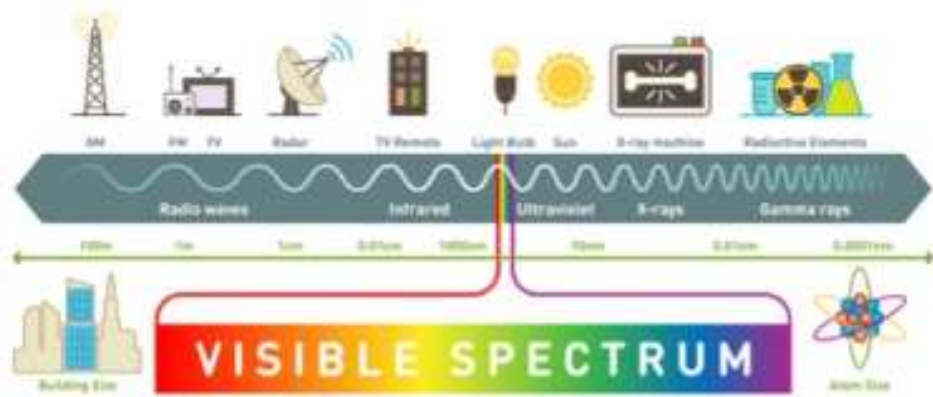
Fill in the blank with the correct answer to complete the sentence.

Word Bank		
mass	temperataure	light

The amount of each wavelength that a star emits depends on the star's .

QUESTION 12

Drag and drop the term into the box to correctly complete the sentence.



The spectrum shows the full range of different wavelengths in electromagnetic radiations.

⊕ electric

⊕ visible

⊕ magnetic

QUESTION 13



Which of the following is true about the moon?



- It takes about 1 second for the reflected light from the moon to reach us on Earth. ✓
- Light emitted from the moon reaches Earth in approximately 8 minutes.
- The moon absorbs light from the Earth in 300,000 seconds.
- Within 40 minutes, the light that is made by the moon can be seen on Earth.



Word Bank		
high	medium	low

Compare to other stars, the Sun has a temperature range.

QUESTION 16

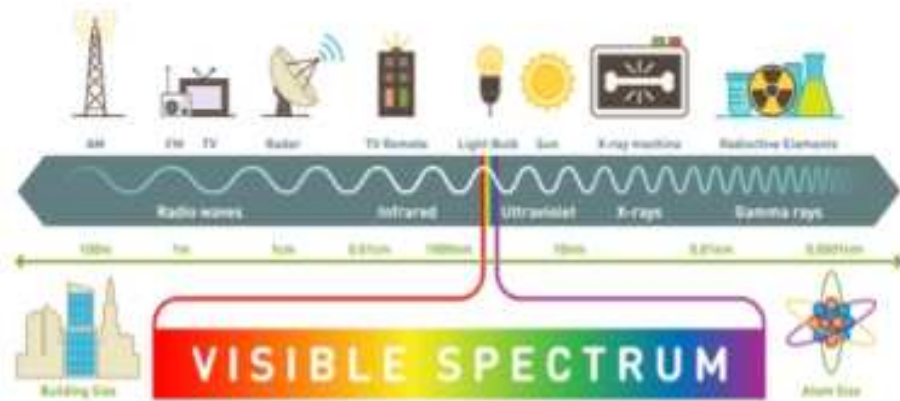
Enter your answer as *electromagnetic* or *mechanical* in the space provided.



The energy that the Sun and other stars radiate into space is a form of waves.

QUESTION 16

Drag and drop the term into the box to correctly complete the sentence.



The electromagnetic spectrum shows the full range of different that an electromagnetic wave can have.

⊕ speeds

⊕ velocities

⊕ amplitudes