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Here is your sample test made with

STAAR Test Maker

By **Progress Testing**

About the Sample Test

- All items written to assess mastery of STAAR-eligible TEKS
- Items coded with TEKS, Readiness and Supporting Standards, Process Skill, Webb Cognitive Complexity Levels
- All STAAR Item Types included: Multiple Choice, Gridded Response, Constructed Response, and Thousands of High Complexity Items
- Items formatted to match official STAAR tests



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1 Expectation: 8.8(B)

Look at the image of the Milky Way galaxy below.



Courtesy of NASA/JPL-Caltech, 2011.

The Milky Way was created when a cloud of gas and dust began to condense. Near the center of the Milky Way, material is just beginning to condense into new stars. This indicates that —

- A** the sun is near the edge of the Milky Way galaxy, close to other stars that have already formed.
- B** the sun is at the center of the Milky Way galaxy, close to dust and gas that has not yet condensed into new stars.
- C** the sun is outside the Milky Way galaxy, close to other stars that are traveling through space.
- D** the sun is near the center of the Milky Way galaxy, close to other stars that are just beginning to form.

2 Expectation: 8.5(B)

Chlorine (Cl) is an extremely reactive element. This is because chlorine —

- F** cannot lose any electrons.
- G** can gain electrons in its outermost shell.
- H** has fewer neutrons in its outermost shell than in its nucleus.
- J** has as many electrons in its nucleus as in its outermost shell.

3 Expectation: 8.6(C)

In a series of controlled experiments, a student measures the force acting on a go-cart and the go-cart's acceleration. The student's data are shown below.

Force (N)	Acceleration (m/s ²)
10	0.5
24	1.2
30	1.5

Based on the recorded observations, what is the mass of the go-cart in kilograms?

2	0			
⊙	⊙	⊙	⊙	⊙
⊙	●	⊙	⊙	⊙
①	①	①	①	①
●	②	②	②	②
③	③	③	③	③
④	④	④	④	④
⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨

4 Expectation: 8.11(B)

A desert ecosystem is depicted in the photograph below.



What must the grasses be able to do to survive?

- F** The grasses must be able to outcompete cacti and yucca plants for shade.
- G** The grasses must be able to outcompete cacti and yucca plants for water.
- H** The grasses must be able to outcompete cacti and yucca plants for shelter from storms.
- J** The grasses must be able to outcompete cacti and yucca plants for minerals in mountain rocks.

5 Expectation: 8.5(E)

A food scientist placed a raw egg in a pan and cooked it. The white and yolk became a thick, solid mass. What evidence indicates that a chemical reaction occurred when the egg was cooked?

- A** The egg changed from a liquid state to a solid state.
- B** Water vapor was released as the egg was heated.
- C** The cooked egg cannot return to its raw state.
- D** Some of the raw egg was boiled and released as a gas.

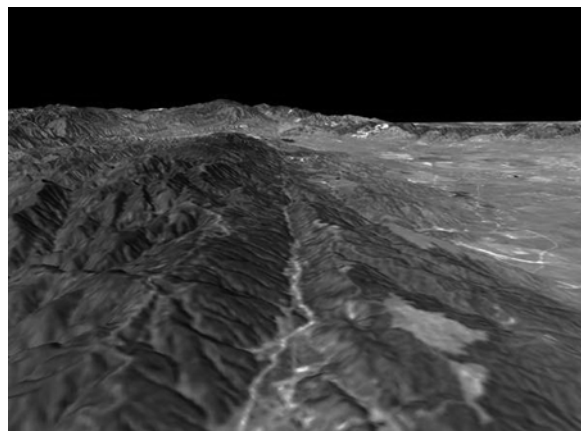
6 Expectation: 8.7(C)

A tide with the largest difference between water levels at high and low tides is known as a spring tide. Two spring tides occur in each lunar cycle. This is because a spring tide occurs when —

- F** the moon and the sun pull on Earth at a 90° angle.
- G** the sun is closest to Earth.
- H** the moon is closest to Earth.
- J** the gravitational pulls of the moon and the sun are aligned.

7 Expectation: 8.9(B)

An image of the San Andreas Fault, which runs along the coast of California, is shown below.



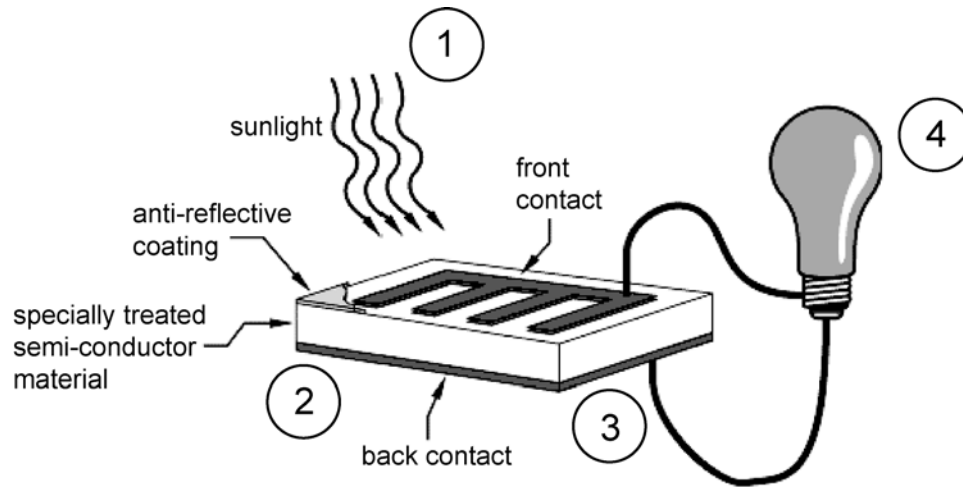
Courtesy of NASA/JPL/NIMA, 2011.

The San Andreas Fault represents an area where the Pacific Plate is drifting northwest. As the Pacific Plate moves, it grinds against the North American Plate, creating —

- A** a long trough of broken earth.
- B** a flat, even surface.
- C** a series of island volcanoes.
- D** a group of gently rolling hills.

8 Expectation: 6.9(C)

The diagram below shows a solar cell.



Courtesy of NASA, 2011.

At what point is light energy transformed into electrical energy?

- F 1
- G 2
- H 3
- J 4



Grade 8 Science made with STAAR Test Maker 1-800-930-TEST

Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Process Student Expectation	Correct Answer
1	3	Supporting	8.8(B)		A
2	1	Readiness	8.5(B)		G
3	2	Readiness	8.6(C)	8.2 (E)	20
4	4	Readiness	8.11(B)		G
5	1	Readiness	8.5(E)	8.2 (B)	C
6	3	Supporting	8.7(C)	8.3 (A)	J
7	3	Readiness	8.9(B)	8.3 (B)	A
8	2	Supporting	6.9(C)	8.3 (B)	G

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(Third-Year banks released Spring 2013).



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