Thank you for your interest.

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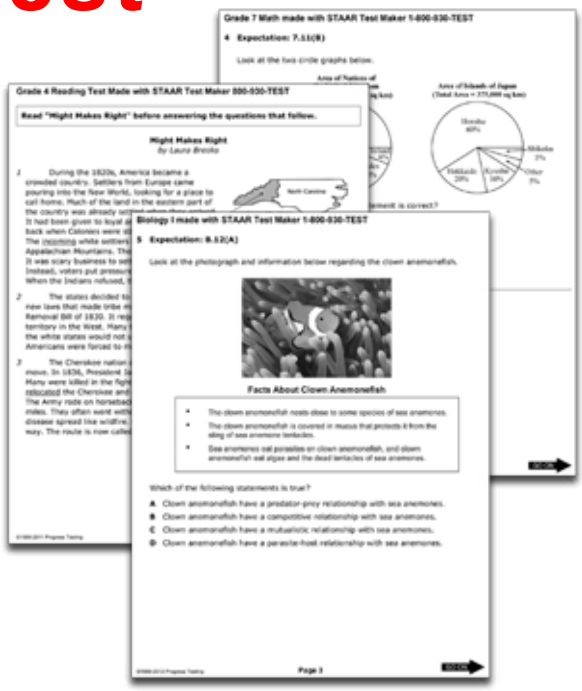
By Progress Testing

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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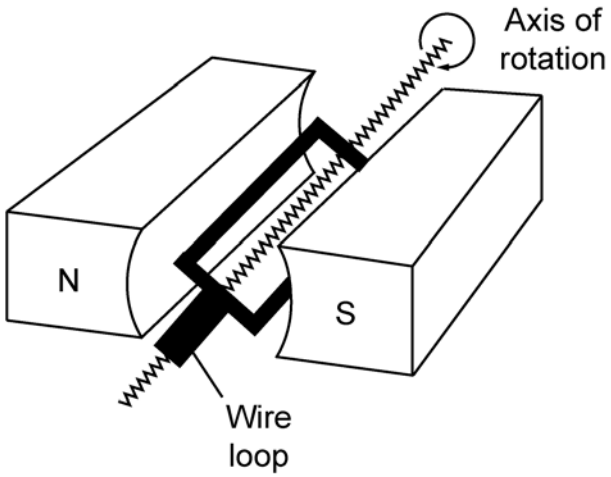
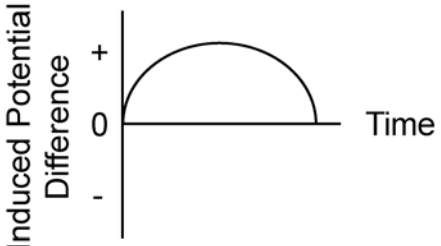
1 Expectation: P.5(G)

The diagram below depicts two bar magnets being used to create a uniform magnetic field so that when a loop of wire is rotated, as shown, at a constant rate about an axis perpendicular to the field, a potential difference is induced across the ends of the loop.



Which graph best represents the relationship between the induced potential difference and time for one complete rotation?

A



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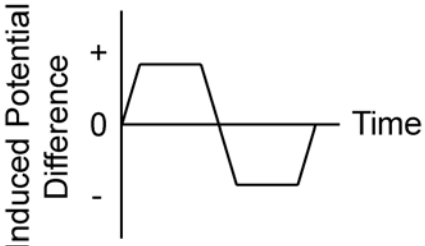
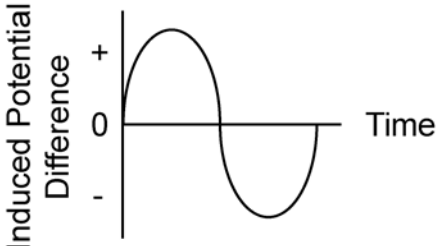
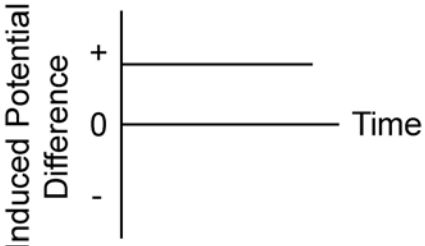


B



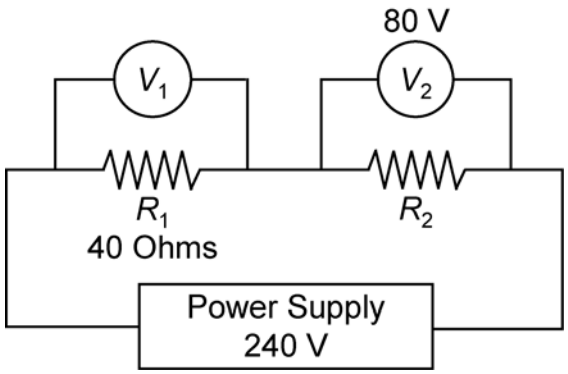
D



GO ON

2 Expectation: P.5(F)

The circuit diagram below shows two resistors, R_1 and R_2, connected in series to a 240-volt power supply. Two voltmeters, V_1 and V_2, are measuring the potential difference across the respective resistors.



If the resistance of R_1 is 40 ohms, and the reading of V_2 is 80 volts, what is the resistance of R_2?

F 20 ohms

G 40 ohms

H 60 ohms

J 80 ohms

3 Expectation: P.6(A)

A 15.0-kilogram mass is moving at 7.50 meters per second on a horizontal, frictionless surface. What is the total work that must be done on the mass to increase its speed to 11.5 meters per second?

A 120. J

B 422 J

C 570. J

D 992 J

4 Expectation: P.6(B)

Work is done on an object to raise it upward. Which of the following must increase in the object when it is raised?

F Internal energy

G Kinetic energy

H Heat energy

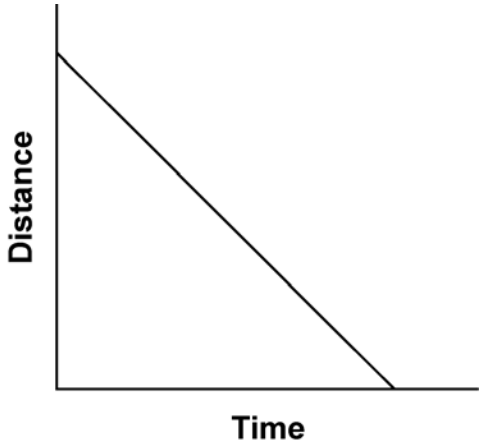
J Gravitational potential energy

GO ON

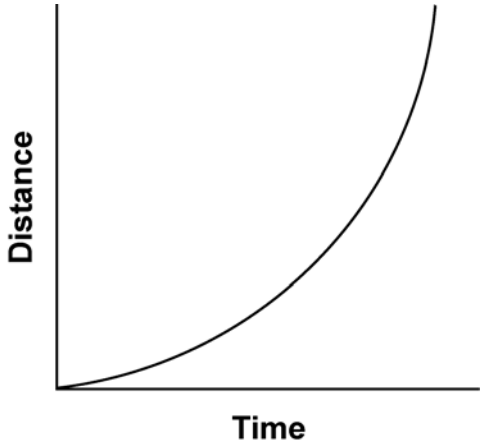
5 Expectation: P.4(A)

A cart travels with a constant, nonzero acceleration along a straight line. Which graph best represents the relationship between the distance the cart travels from the starting point and its time of travel?

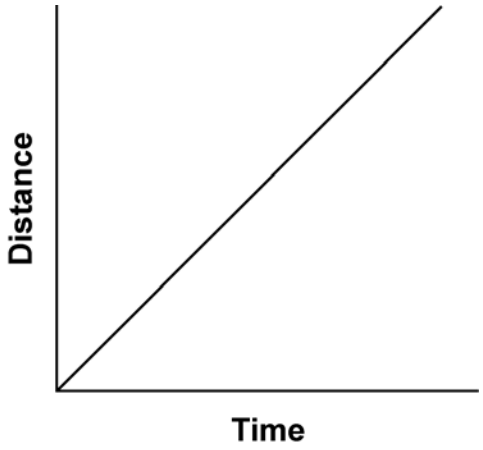
A



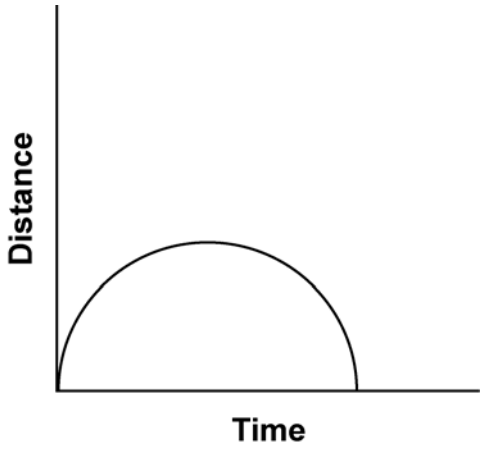
C



B



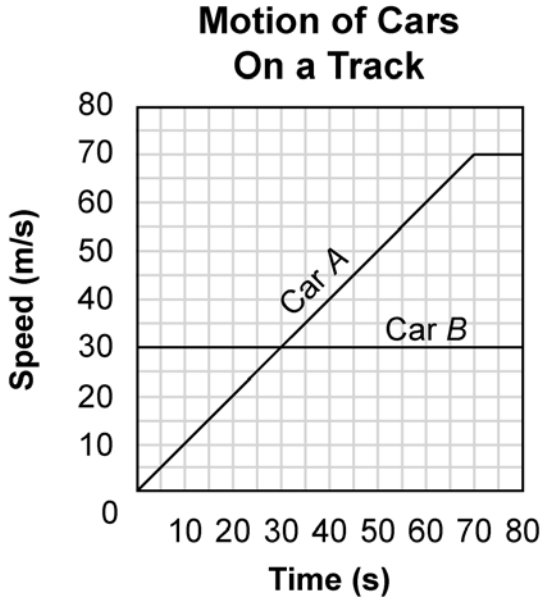
D



GO ON

6 Expectation: P.4(A)

The graph below represents the motion of cars *A* and *B* on a straight track. At time $t = 0$ seconds, car *B* passes car *A* as car *A* is starting from rest.



How long after $t = 0$ does it take car *A* to catch up to car *B*?

F 30 seconds

G 40 seconds

H 60 seconds

J 70 seconds

7 Expectation: P.4(C)

A boy standing at the edge of a sheer cliff 45 meters above the level ground throws a baseball horizontally at 25 meters per second. Approximately how far from the base of the cliff does the ball hit the ground?

A 45 m

B 75 m

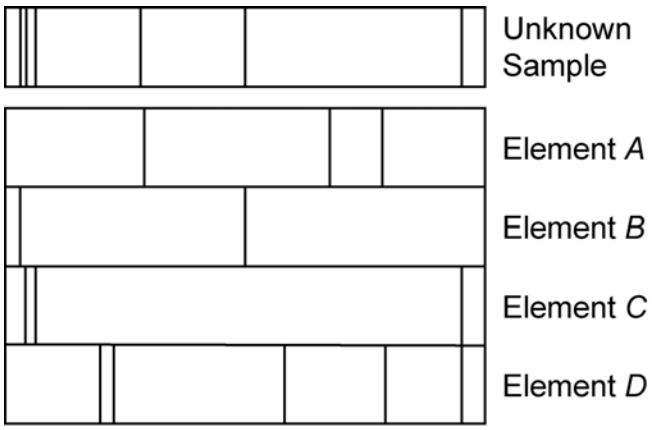
C 140 m

D 230 m

GO ON

8 Expectation: P.8(B)

The diagram below represents the bright-line spectra of four elements, *A*, *B*, *C*, and *D*, and the spectrum of an unknown gaseous sample.



Based on comparisons of these spectra, which two elements are found in the unknown sample?

F *A* and *B*

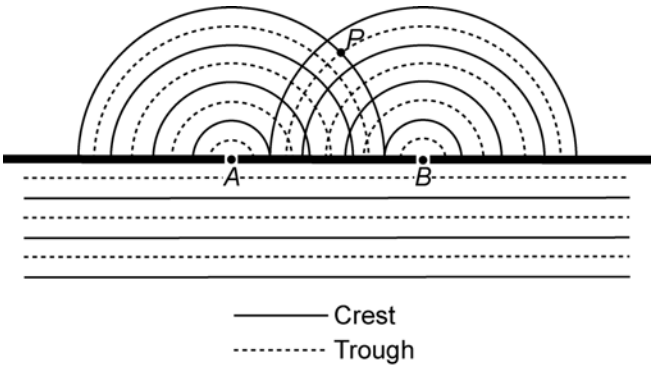
G *A* and *D*

H *C* and *D*

J *B* and *C*

9 Expectation: P.7(D)

The diagram below represents shallow water waves of constant wavelength passing through two small openings, *A* and *B*, in a barrier.



Which statement best describes the interference at point *P*?

A It is destructive and causes a decrease in amplitude.

B It is constructive and causes an increase in amplitude.

C It is constructive and causes a longer wavelength.

D It is destructive and causes a shorter wavelength.

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Item Number	Reporting Category	Readiness or Supporting	Content Student Expectation	Process Student Expectation	Correct Answer
1	2	Supporting	P.5(G)	P.2 (F)	B
2	2	Readiness	P.5(F)		F
3	3	Readiness	P.6(A)	P.2 (L)	C
4	3	Readiness	P.6(B)		J
5	1	Readiness	P.4(A)	P.2 (L)	C
6	1	Readiness	P.4(A)	P.2 (J)	H
7	1	Supporting	P.4(C)	P.2 (L)	B
8	4	Supporting	P.8(B)		J
9	4	Readiness	P.7(D)		A

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