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STAAR
Science

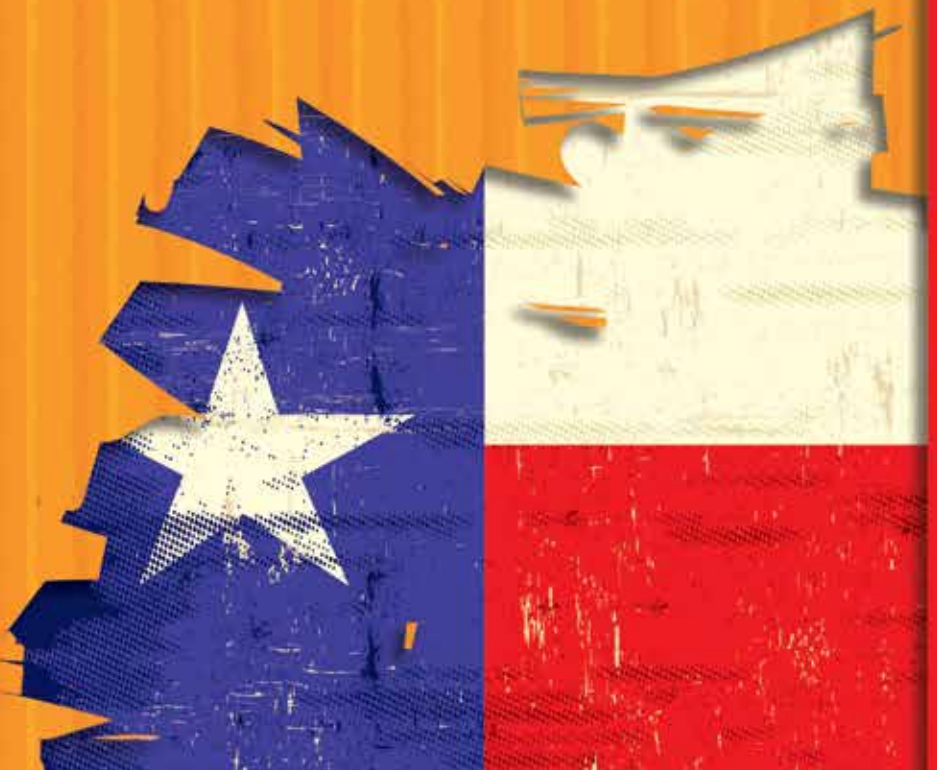


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Practice Exercise 3

Directions: Read each question carefully. Record the correct answer on your answer sheet.

- 1 To conduct an investigative experiment, students filled a bowl with water and collected items, such as those shown below. They predicted which of the items would sink and which would float. After dropping each item into the water, they recorded their findings.



Which physical property are the students most likely working to measure in this experiment?

- A Mass
- B Solubility
- C Relative density
- D Thermal energy insulation

Practice Exercise 3 *(cont.)*

- 2 Which activity most closely relates to weather rather than climate?
- F A digital graph shows the average summer rainfall in Laredo from 1800 to the present.
 - G A chart shows the temperatures from January 1 through January 5 of the current year in Brownsville.
 - H A project with photos shows the formation of hurricanes in the Gulf near Houston during the past 15 years.
 - J A group presentation shows wind patterns in San Antonio near the River Walk from 1910 to 2010.

-
- 3 Deserts in the United States have little rainfall and very high temperatures during the day. Desert animals are adapted to live in this hot, sunny climate. Some animals sleep during the day and find food at night. Snakes and lizards have dry, scaly skin to hold in moisture. Animals such as the jackrabbit have very large ears to adapt to the desert heat.



How do the long ears of the jackrabbit shown above help it adapt to life in the desert?

- A Its ears trap small bugs.
- B Its ears allow it to hear prey.
- C Its ears help it cool air for its body.
- D Its ears signal danger to predators.

GO ON 

Practice Exercise 3 *(cont.)*

4 A student’s older brother is home from college for the weekend. On his first morning home, he wakes up and makes breakfast.

- He turns on the lamp.
- He turns on the mixer and mixes eggs and milk for an omelet.
- He turns on the toaster and makes toast.



The student thoughtfully observes his brother's actions and creates a chart for a science assignment. He correctly shows the forms of energy for the tasks. Which of these charts is the student’s chart?

Chart F

He turns on a lamp.	Changing light energy into electrical energy
He turns on the mixer and mixes eggs and milk for an omelet.	Changing light energy into motion energy
He turns on the toaster and makes toast.	Changing light energy into thermal energy

Chart H

He turns on a lamp.	Changing electrical energy into light energy
He turns on the mixer and mixes eggs and milk for an omelet.	Changing electrical energy into mechanical energy
He turns on the toaster and makes toast.	Changing electrical energy into thermal energy

Chart G

He turns on a lamp.	Changing motion energy into electrical energy
He turns on the mixer and mixes eggs and milk for an omelet.	Changing thermal energy into electrical energy
He turns on the toaster and makes toast.	Changing light energy into electrical energy

Chart J

He turns on a lamp.	Changing light energy into electrical energy
He turns on the mixer and mixes eggs and milk for an omelet.	Changing motion energy into thermal energy
He turns on the toaster and makes toast.	Changing thermal energy into motion energy



Practice Exercise 3 *(cont.)*

- 5 The photos below show a red Texas rat snake and a copperhead snake. Both of these snakes eat rodents, such as rats and mice.



Texas Rat Snake



Copperhead

Students are drawing a diagram to show how energy flows through an ecosystem. As they work, they want to correctly identify the relationship between these snakes and the rodents they consume. In the relationship of the snakes to the rodents, how should the snakes be identified?

- A** Producers
B Consumers
C Herbivores
D Decomposers
-
- 6 Wind turbines, such as those shown below, are used to provide energy to a large area in a Texas town.



Which statement best explains why the wind turbines are important?

- F** They give a quiet energy resource.
G They offer an alternative energy resource.
H They show effective use of fossil fuels as an energy resource.
J They illustrate a good example of a hydroelectric energy resource

