

What's
the
evidence?

SC.4.P.8.1



Read the multiple choice question, make a claim and develop a written explanation.

Rowen and Mia are comparing two samples of matter. They make a table of the properties of each sample. Which property provides the best evidence that both samples are solids rather than liquids?

PROPERTIES OF SAMPLES

Property	Sample 1	Sample 2
Color	Red	Silver
Mass (grams)	30	5
Shape	Pyramid	Cube
Volume (milliliters)	40	3

- a. color
- b. mass
- c. shape
- d. volume

I **claim** that _____ is the correct answer because _____

Research and Cite Your Evidence:

Resource # 1: Title: _____ Page(s) _____

Record the text based evidence below.

Resource # 2: Title: _____ Page(s) _____

Record the text based evidence below.

Was your original claim correct? Yes or No Record your final claim based on evidence.

Share and compare your final evidence based claim with another student.

Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation

The three states of matter are solid, liquid, and gas. Which process turns liquid water into a gas?

- f. condensation
- g. evaporation
- h. freezing
- i. melting

I **claim** that _____ is the correct answer because _____

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What's the
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SC.P.3.9.1



Look at the illustration of the two bar magnets below.



What will happen when the two magnets are moved closer together?

- f. The magnets will repel each other.
- g. The magnets will attract each other.
- h. One of the magnets will slide under the other.
- i. The magnetic fields will cancel each other out.

What's the evidence?

SC.4.P.8.4



I **claim** that _____ is the correct answer because _____

Research and Cite Your Evidence:

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Resource # 2: Title: _____ Page(s) _____

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Are your claims the same?

What's the evidence?

SC.4.P.9.1



Read the multiple choice question, make a claim and develop a written explanation.

Substances can change in different ways. Sometimes they produce new substances. This is called a chemical change. Which is an example of a chemical change?

- a. an ice cube melting
- b. a pencil snapping in half
- c. an eraser getting smaller
- d. a cake baking in the oven

I **claim** that _____ is the correct answer because _____

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Record the text based evidence below.

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Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

Jim plays the guitar. When he strums the guitar with his hand, a sound is made.
Which of these explains why sound is produced?

- a. The hand vibrates the air.
- b. The guitar absorbs energy from the air.
- c. The guitar transfers vibrations into the air.
- d. The hand releases potential energy into the air.

**What's the
evidence?**

SC.4.P.10.3



I **claim** that Stage _____ is the correct answer because _____

Research and Cite Your Evidence:

Resource # 1: Title: _____ Page(s) _____

Record the text based evidence below.

Resource # 2: Title: _____ Page(s) _____

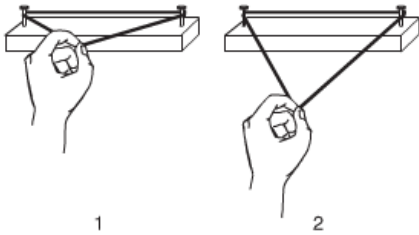
Record the text based evidence below.

Was your original claim correct? Yes or No Record your final claim based on evidence.

Share and compare your final evidence based claim with another student. Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

Candace is investigating the properties of sound. The picture below shows how far she pulled the rubber bands.



How would the sound from number 2 compare with the sound from number 1?

- a. higher
- b. louder
- c. lower
- d. softer

I **claim** that Stage _____ is the correct answer because _____

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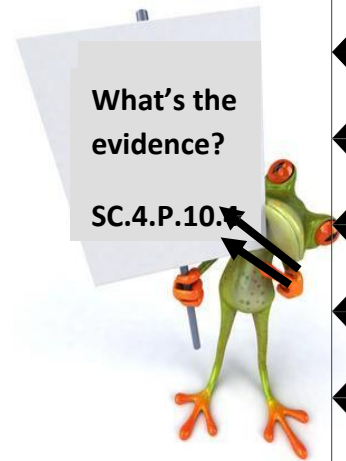
SC.4.P.10.3



Read the multiple choice question, make a claim and develop a written explanation.

Christina knows that wind and water are two sources of energy. Which of the statements can Christina say is true about **both** wind and water?

- a. They are limited in supply on Earth.
- b. They can be used to generate electricity.
- c. They can replace all other energy sources.
- d. They can be used to produce solar energy.



I claim that _____ is the correct answer because _____

Research and Cite Your Evidence:

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Was your original claim correct? Yes or No Record your final claim based on evidence.

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Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

Kelly put ice in a cup and poured warm lemonade into the cup over the ice. After 20 minutes, she noticed that the ice was melting. Why did the lemonade get cold?

- a. The coldness from the ice moved into the lemonade.
- b. The heat from the lemonade moved into the ice.
- c. The lemonade absorbed the ice cubes until they were gone
- d. The coldness and the heat from the ice moved back and forth until the ice melted

What's the evidence?

SC.4.P.11.1



I **claim** that _____ is the correct answer because _____

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Name _____ Date _____

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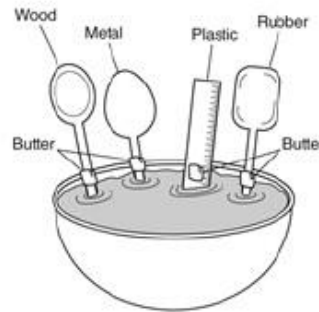
Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

Dan fills a bowl with hot water. He places four different objects in the bowl. Then he smears a bit of butter on each object, just above the water's surface. The picture below shows Dan's experiment.

On which object will Dan **first** see butter melting?

- a. plastic ruler
- b. wood spoon
- c. metal spoon
- d. rubber spatula



What's the evidence?

SC.4.P.11.2



I claim that _____ is the correct answer because _____

Research and Cite Your Evidence:

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Resource # 2: Title: _____ Page(s) _____

Record the text based evidence below.

Was your original claim correct? Yes or No Record your final claim based on evidence.

Share and compare your final evidence based claim with another student.

Are your claims the same?

What's the evidence?

SC.4.P.12.1



Read the multiple choice question, make a claim and develop a written explanation.

Tyler does a report about objects in motion for science class. He gives examples of animals, people, cars, and airplanes as objects that can be in motion.

Which of the following statements can Tyler include in his report about motion?

- f. Gravity has no effect on objects in motion.
- g. Position of an object in motion may change.
- h. Objects in motion always change their direction as they accelerate.
- i. Objects in motion always change position and may change direction.

I **claim** that _____ is the correct answer because _____

Research and Cite Your Evidence:

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Was your original claim correct? Yes or No Record your final claim based on evidence.

Share and compare your final evidence based claim with another student.

Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

Four trains are leaving a train station. They are all traveling the same distance to their destinations. Their speeds are shown in the table below.

Train Number	Speed (mph)
15	45
16	36
17	52
18	49

SC.4.P.12.2



If the trains travel at a constant speed, which train will most likely reach its destination **last**?

- a. Train 15
- b. Train 16
- c. Train 17
- d. Train 18

I **claim** that _____ is the correct answer because _____

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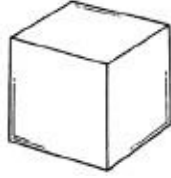
Share and compare your final evidence based claim with another student.

Are your claims the same?

Read the multiple choice question, make a claim and develop a written explanation.

The mass of an ice cube in a dish is 3 grams (g).

What is the mass of the melted ice cube in the same dish **most likely** to be?



- a. 1 g
- b. 2 g
- c. 3 g
- d. 4 g

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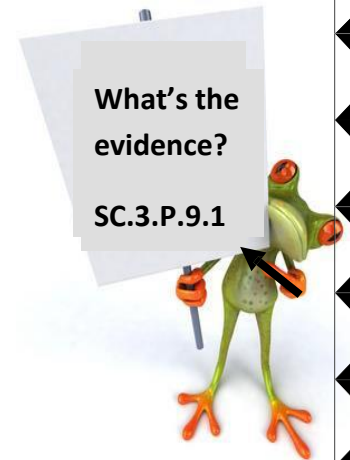
SC.3.P.8.2



Read the multiple choice question, make a claim and develop a written explanation.

Gino builds a snowman, but as the sun comes out, he notices the snowman begins to get smaller and smaller. What type of change is taking place?

- f. liquid freezing to become solid
- g. liquid melting to become gas
- h. solid freezing to become liquid
- i. solid melting to become liquid



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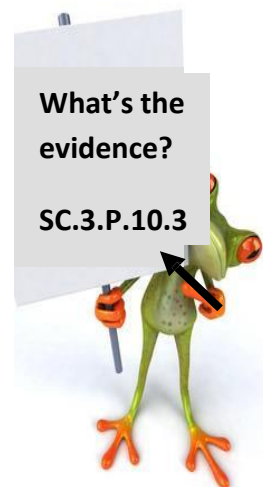
Read the multiple choice question, make a claim and develop a written explanation.

Light travels through air in a straight line. As it encounters a mirror, what happens to the light?

- a. It is refracted by the mirror.
- b. It is reflected by the mirror.
- c. It is absorbed by the mirror.

What's the evidence?

SC.3.P.10.3



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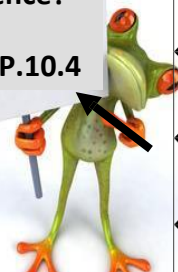
The prism in the picture is made of glass.
What happens to the light as it hits the prism?

- f. It refracts.
- g. It repels.
- h. It reflects.
- i. It is absorbed.



What's the evidence?

SC.3.P.10.4



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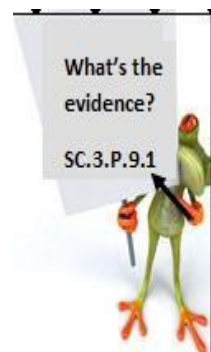
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Read the multiple choice question, make a claim and develop a written explanation.

One morning, Flora noticed there were tiny drops of water on the grass as she walked to school. That afternoon, she did not see any drops of water on the grass when she returned home. Which of the following **best** describes what happens to the drops of water?

- a. The heat from the air caused the water drops to boil.
- b. The air cooled the water and caused the drops to freeze.
- c. The energy from the Sun caused the water drops to condense.
- d. The Sun heated the water and caused the drops to evaporate.



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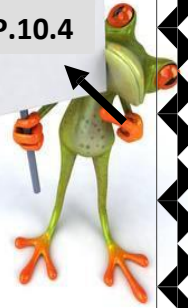
Read the multiple choice question, make a claim and develop a written explanation.

AriYanna pointed a flashlight straight ahead. The light traveled forward. It then suddenly traveled straight back at AriYanna. Which of the following objects did the light most likely strike?

- a. clear glass window
- b. large mirror
- c. a wall
- d. surface of a pond

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SC.3.P.10.4



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