

Q1

Station 1

This is the amount of matter packed into a given space compared to its ability to sink or float in water-

- A) relative density
- B) matter
- C) mass
- D) physical properties

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Q2

Station 1

Which of the following is when matter breaks down into particles that are so small that it seems to disappear?

- E) relative density
- F) dissolving
- G) matter
- H) magnetism

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Q3

Station 1

These are used to observe and describe matter (examples include relative density, mass, solubility, etc.)-

- J) physical state
- K) solubility
- L) physical properties
- M) conductor

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Q4

Station 1

Which of the following is the classification of matter as a solid, liquid, or gas?

- N) physical properties
- O) insulator
- P) matter
- Q) physical state



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Q1

Station 2

All of the following items are good insulators except-

- A) a plastic hairbrush
- B) a paper clip
- C) rubber around the computer power cord
- D) a piece of construction paper

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Q2

Station 2

What would be the best way to separate aluminum cans from steel cans at a recycling center?

- A) put all the cans in water
- B) melt the cans together
- C) use a large magnet
- D) sort the cans by their size

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Q3

Station 2

Which of these is the best conductor of electricity?

- A) copper wire
- B) rubber tube
- C) nylon string
- D) glass bowl

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Q4

Station 2

In science class, Layla mixed 5g of salt into a beaker. After stirring for 30 seconds, the salt cannot be seen in the water. She places the beaker on a hot plate and evaporates the water. The salt is now at the bottom of the beaker. Which property of salt was Layla studying?

- A) density
- B) mass
- C) solubility
- D) physical state

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Q1

Station 3

Which of the following physical properties would a copper wire and an iron nail be placed in different categories?

- A) conductor/insulator
- B) float/sink
- C) solid/liquid
- D) magnetic/nonmagnetic

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Q2

Station 3

Noah held a rubber duck halfway down under water. He released the duck. What would happen to it?

- A) The rubber duck will sink to the bottom.
- B) The rubber duck will rise to the surface.
- C) The rubber duck will stay halfway down in the water.
- D) We need more information.

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Q3

Station 3

Which physical state change takes place when heat energy is removed from water?

- A) liquid to solid
- B) liquid to gas
- C) solid to gas
- D) solid to liquid

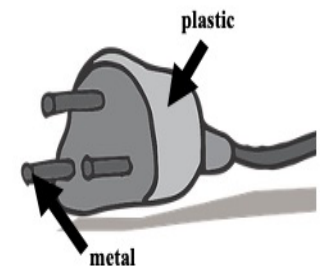
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Q4

Station 3

See the electrical plug picture below. Which of the following best explains why the body of the plug is made from plastic?

- A) Plastic is soluble in water.
- B) Plastic is slow to melt.
- C) Plastic is an insulator.
- D) Plastic is a conductor.



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Q1

Station 4

Which of the following statements best explains why a magnet will usually stick to a refrigerator door?

- A) The refrigerator door is a good insulator.
- B) The refrigerator door is smooth.
- C) The refrigerator door contains iron.
- D) The refrigerator door has electric wires in it.



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Q2

Station 4

The picture below shows a popsicle. It was placed in a bowl and left to melt. Which of the following properties of the popsicle changed the most when it melted?

- E) mass
- F) physical state
- G) volume
- H) color



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Q3

Station 4

Which of the following tools would be used to find the mass of a golf ball?

- A) triple-beam balance
- B) meter stick
- C) graduated cylinder
- D) beaker

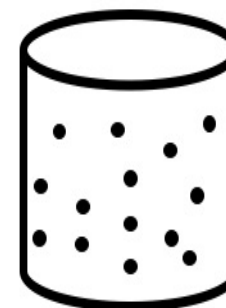
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Q4

Station 4

What state of matter are the particles in the jar below?

- E) gas
- F) liquid
- G) solid
- H) soluble



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Q1

Station 5

Leah is cooking a casserole. She wears a protective mitt to lift the metal pan out of the oven. Why is the protective mitt necessary to take the pan out of the oven?

- A) The metal pan reduces thermal energy.
- B) The metal pan insulated thermal energy.
- C) The metal pan conducts thermal energy.
- D) The metal pan decreases thermal energy.

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Q2

Station 5

Mark collected data on the physical properties of four different substances for a science lab. Based on the table, what makes Material 3 different from the other materials?

- E) looks like colored crystals
- F) is nonmagnetic
- G) mass is more than 50 grams
- H) doesn't dissolve in water

Material	Appearance	Mass (g)	Mixed with Water	Magnetic
1	Colored crystals	50	Dissolves	No
2	White crystals	50	Dissolves	No
3	Colored crystals	50	Sinks to bottom	No
4	White crystals	50	Dissolves	No

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Q3

Station 5

In science class, a student investigated 4 samples of matter and wrote his data in the table below. Which sample has the following properties?

- conducts electricity, nonmagnetic, with a mass of 20-25 grams

- J) Sample 1
- K) Sample 2
- L) Sample 3
- M) Sample 4

Sample	Physical Properties		
	Magnetic	Conducts Electricity	Mass (g)
1	No	Yes	18.3
2	No	Yes	22.7
3	Yes	Yes	21.5
4	Yes	Yes	9.6

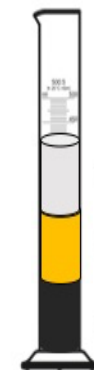
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Q4

Station 5

Three liquids are in a container. They are labels X, Y, and Z. Which is the correct order of their densities from most dense to least dense?

- P) X, Y, Z
- Q) Y, Z, X
- R) Z, Y, X
- S) Z, X, Y



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