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Use the word bank to fill in the blanks:

Mixture Solution Special kind of mixture
Solubility dissolve evenly
uniform easily separated cannot
physical properties

A _____ is a combination of two or more substances that can be _____ . In mixtures, matter keeps its _____. This means you can see their differences and tell them apart. A _____ is a _____ where one substance spreads out _____ throughout the other. _____ is the ability for one substance to _____ in another substance. Solutions look _____, which means everything looks the same and _____ be easily separated.

Draw a line from the vocabulary term to the correct definition:

Volume

Mass

Density

Matter

Physical Characteristics

Anything that has mass and takes up space.

The amount of matter in an object

The amount of space an object takes up

A property that can be observed, measured, or changed without changing the substance

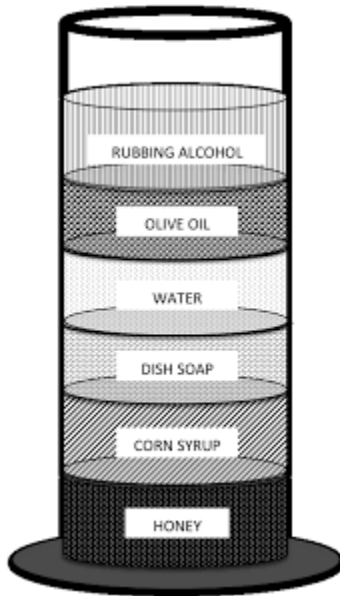
The amount of matter in a given space and how the particles are packed together in a given space

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Fill in the blanks with **more** or **less** dense:



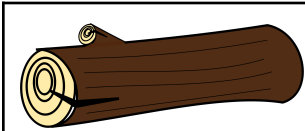
Rubbing alcohol is _____ dense than olive oil

Corn Syrup is _____ dense than dish soap

Honey is _____ dense than olive oil

Water is _____ dense than dish soap

Label the following pictures as either a thermal **Conductor** or **Insulator**



Label the following pictures as either an electrical **Conductor** or **Insulator**

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 _____	 _____	 _____	 _____
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Multiple choice:

Henry is separating a mixture of sand, and gravel. Which tool would make the most sense to use?

- a. Tweezers
- b. Hot plate
- c. Funnel
- d. Sieve/strainer

Nikki is separating sand and water from one another. Which tool would be the best for Nikki to use?

- a. Hands
- b. Filter paper/screen
- c. Hot plate
- d. Funnel

Rhay is separating a solution made up of saltwater. What would be the best tool to do so?

- a. Hot plate
- b. Tweezers
- c. It cannot be separated
- d. Two beakers

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For each **bolded** vocabulary word write a brief description/definition followed by a drawing of a picture

Energy	Force	Gravity

Friction	Magnetism	Movement

Use the following scenario to explain the experiment:

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Brielle wonders if different surfaces affect how far her toy car will roll coming off a ramp? She formulates a hypothesis and claims that the smoother the surface, the farther her toy car will go once leaving the ramp because smooth surfaces have less friction. She decides to conduct an experiment. First, she builds a ramp. She will use this ramp to test every surface. She picks out three different materials for the toy car to roll over once launched off the ramp. The materials she uses are foil, carpet, and sandpaper. First she rolls the toy car down the ramp onto the foil and measures the distance. She repeats this two more times and records her measurements each time. Second, she rolls the toy car down the ramp onto the carpet and records the distance. She repeats this two more times. Lastly, she rolls the car off the ramp onto the sandpaper. She does this a total of three times. Brielle makes a graph with all of her measurements from the three different surfaces and is able to compare her findings. In conclusion she determines that the foil surface allows the car to go the farthest because it has the least amount of friction.

1. What is Brielle's guiding question?
2. What claim does she make and what is her reasoning?
3. Foil, carpet, and sandpaper are examples of the experiment's
 - A. Factors
 - B. details
 - C. variables

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D. measurements

4. The control(s), what is staying the same in the experiment, are
 - A. The surfaces
 - B. The distance measured
 - C. The toy car and the ramp
 - D. Only the ramp
5. Brielle testing each surface more than once is called
 - A. Design choice
 - B. Investigation
 - C. Experiments
 - D. trials

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