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Name: _____

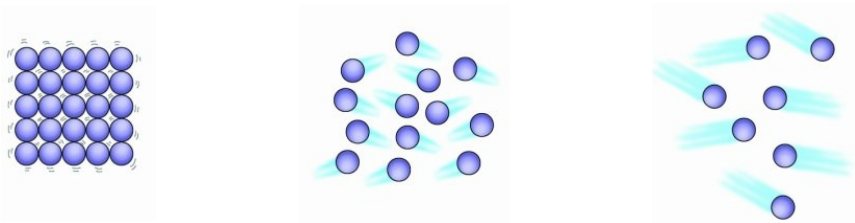
School: _____



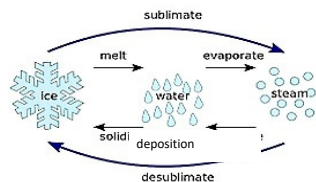
Properties of Matter

Physical Properties

Matter on the Move: What are the three states of matter?



Phase Change Poppers: What is the phase change called when a solid changes directly into a gas?



Invisible Mass: Air has mass.

True or False (Circle one)

It's a Gas: When citric acid and baking soda react, what gas bubbles out of the solution?

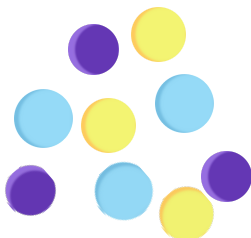
Slime Time: What type of fluid acts like both a liquid and a solid?



Mixtures

Separation Anxiety: Are mixtures separated by chemical or physical means?

Chemical or Physical (Circle one)



Energy

Light



Color Combinations: When you combine red, green, and blue light, what color light do you get?

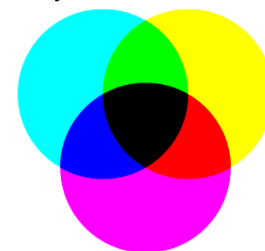
Colored Shadows:

What secondary colors are produced by the following primary light combinations?

Red + Blue = _____

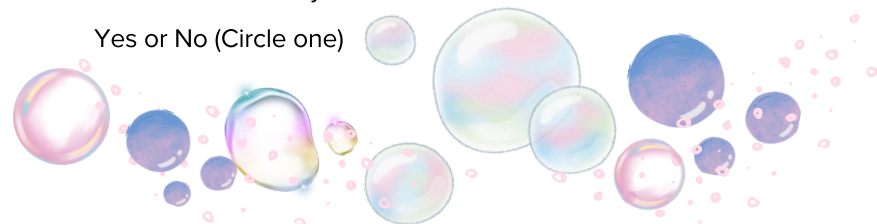
Blue + Green = _____

Green + Red = _____



Great Wall of Color: Did you see colors reflected in the bubble film?

Yes or No (Circle one)



Refraction Action: The bending of light is called _____.

Super Spectroscopes: A spectroscope is a tool used for observing a spectrum of _____.



It's a Mirror-cle: Why does it look like you are flying?



Energy

Mechanical



Give it a Ride:

_____ energy is stored energy.

_____ energy is energy in motion.

Keep Your Eye on the Ball: Energy cannot be created or destroyed.

True or False (Circle one)

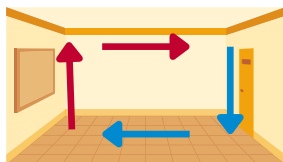
Heat

Some Like it Hot: Match the 3 methods of heat transfer to the corresponding pictures.

Conduction

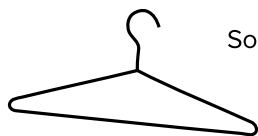
Convection

Radiation



Sound

Musical Coat Hangers: Which is the best medium for sound waves to travel?

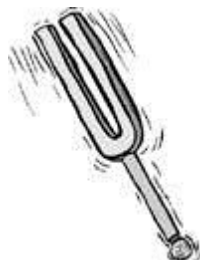


Solid

Liquid

Gas

(Circle one)



Seeing Sound: What creates sound?

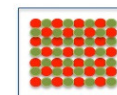
Properties of Matter

Density

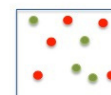
Magic Hat: What is the definition of density?

Floating Golf Ball: Which is more dense?

Freshwater or Saltwater (Circle one)



High Density



Low Density

Hot and Cold Density: How can you change the density of water?

Changing the Density of an Object: Can two objects have the same volume but different densities? Yes or No (Circle one)

Stacking Colors: Liquids that are more dense will have a higher

_____.

Chemical Reaction

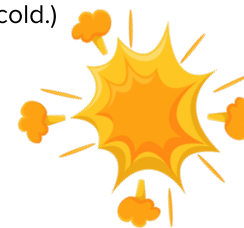
Gassy Lava Lamp: What is a chemical reaction?



Exothermic vs. Endothermic:

_____ reactions release energy in the form of heat. (For example, Calcium chloride mixed with water feels warm and can be used to melt ice.)

_____ reactions absorb energy in the form of heat. (For example, Urea mixed with water feels cold.)



Forces & Motion

Air Pressure

Automatic Balloon Inflator: Which takes up more space?

Hot air or Cold air? (Circle one)

Mystery Candle: Is the pressure higher or lower inside the flask?

Higher or Lower? (Circle one)

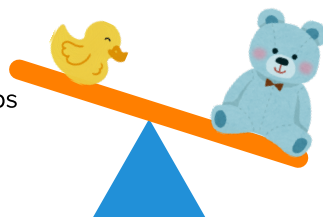


Gravity

Gravity keeps you down: _____
causes falling objects to slow down.

Strike a Balance: What physics concept keeps objects balanced?

The _____ of
_____ of an object.



Spanning the Distance: A lever that is supported on only one end is called a _____.



Forces & Motion

Magnetism



Magnet Magic: Magnetic fields cause magnetic

_____ and _____.

Magnet Mania: All metals are magnetic. True or False? (circle one)

Properties of Water

Magic Playing Card: What bond is breaking when the water spills out?

_____ OR _____.

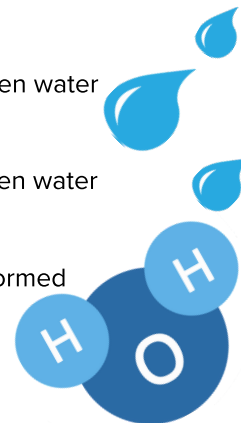
H2OLYMPICS:

_____ is the attraction between water molecules.

_____ is the attraction between water molecules and other materials.

_____ is the strong bonds formed between water at the surface.

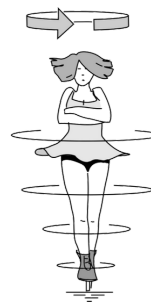
_____ is the movement of water molecules within materials.



Momentum Machine:

Momentum

Show Me the Momentum:



Match the type of momentum to the photo.

Angular

Linear



Hoverboard: What is Newton's first law?