Science Log – 5th

Topic: Matter

Learning Goals:

1. Create models of molecular compounds models.
2. Identify mixtures and solutions of different combinations of matter.
3. Categorizing (sort) different types of matter we discover in nature.

K What do you already **know** about the topic?	W What do you **want to know** about the topic?	L What did you **learn** about the topic?

Vocabulary

Observation	Statement made from using your senses
Matter	Anything that has mass and takes up space (volume)
Mass	The amount of matter (stuff) in an object
Gas	Assumes the shape of its container; assumes the volume of its container; compressible; flows easily
Liquid	Assumes the shape of its container; has a definite volume; not easily compressible; flows easily
Solid	Retains a fixed shape; has a definite volume; not easily compressible; does not flow easily
Mixture	Combination of two or more substances that can easily be separated
Solution	Special type of mixture in which one substance dissolves in another
Compound	When two or more elements combine to form a new substance
Atom	Smallest part of an element
Molecule	Smallest part of a compound

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Mix It Up

Supplies: 3 liquids (ex: water, juice, milk, soda, vinegar) and 3 solids (ex: rice, corn, Kool-Aid, beans), 6 small cups, tweezers, coffee filter, spoon

Directions:

1. Choose 3 liquids and 3 solids.
2. Fill small cups halfway, each one with a different liquid or solid you have chosen.
3. Choose two cups that you want to combine. Record which two you choose on the chart below.
4. Make a **prediction**: Will these two components, together, become a **mixture** or a **solution**?
5. Combine those two components together and stir them well.
6. Use different tools to try to separate those two components. If you can separate them, then you have created a **solution**. If you could not sperate them, then you have created a **mixture**.
7. Record your **outcome** and **explain** how you came to that conclusion.
8. Repeat steps 2-7 two more times!

	Component #1	Component #2	Prediction	Outcome	Explain
COMBINATION #1	_____ 	_____ 	○ Mixture ○ Solution	○ Mixture ○ Solution 	_____ _____ _____ _____ _____ _____
COMBINATION #2	_____ 	_____ 	○ Mixture ○ Solution	○ Mixture ○ Solution 	_____ _____ _____ _____ _____ _____
COMBINATION #3	_____ 	_____ 	○ Mixture ○ Solution	○ Mixture ○ Solution 	_____ _____ _____ _____ _____ _____