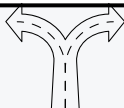


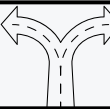
Physical and Chemical Changes Menu

Directions: Take a look at the different ways you can explore **physical and chemical changes** on the choice board. Choose the ONE activity that you think will best help you show what you've learned and that you will enjoy working on!

Ask and Investigate 	Model It! 	Be a Data Detective 
Come up with a question about physical or chemical changes. Plan a simple way to investigate.	Create a model to show a physical change and a chemical change. Explain what is different about your models.	Observe different changes happening around you. Record your observations and classify each change as physical or chemical. Share your findings.
Math Connections! 	Explain It! 	Solve a Problem! 
Use measurements to describe a physical or chemical change. Explain how the measurements show the change.	Describe in your own words what a physical change is and what a chemical change is. Give examples of each.	Imagine a situation where you need to cause a physical change or a chemical change. Explain the steps you would take.
Tell a Story! 	Create a Visual! 	Be the Teacher! 
Write a short story about a situation where both physical and chemical changes occur. Describe the changes in your story.	Create a visual representation that shows the differences between physical and chemical changes.	Explain to someone how to tell the difference between a physical change and a chemical change. Use real-world examples.

Change It Up: Physical & Chemical Ideas!

Explore the core concepts of physical and chemical changes with these starting points. Remember, you can always come up with your own amazing projects too!

Ask and Investigate 	Model It! 	Be a Data Detective 
1. Does cutting something change its color? 2. Does mixing things always make new things? 3. Can you unmix a mixture?	1. Show a change where the size changes. 2. Show a change where something burns. 3. Show a change where a solid and liquid mix.	1. Watch ice melt and describe what happens. 2. Observe what happens when you mix baking soda and vinegar. 3. Look at a rusting nail and describe the changes.
Math Connections! 	Explain It! 	Solve a Problem! 
1. Measure the length of a piece of string before and after cutting it. 2. Compare the mass of water before and after freezing it. 3. Time how long it takes for sugar to dissolve in water.	1. Describe what happens when water boils. 2. Describe what happens when wood burns. 3. What is the difference between melting and dissolving?	1. How can you separate salt and pepper? 2. How can you make a mixture of sand and water? 3. How can you change the shape of a piece of clay?
Tell a Story! 	Create a Visual! 	Be the Teacher! 
1. A character tears a paper to hide a message. 2. A character cooks food and it changes. 3. A character mixes ingredients to make something new.	1. A picture showing different types of physical changes. 2. A diagram showing what happens during a chemical change. 3. A chart comparing physical and chemical changes.	1. Explain how to make a salad (physical change). 2. Explain how to bake a cake (chemical change). 3. Act out a physical and a chemical change without talking. Have someone guess and explain.