



TSS Primary Science MTP 2023- 2024 Year 3 Block 2 – Chemistry

Key Targets and Learning Objectives		Key Activities	Equipment
<ul style="list-style-type: none">• Know that materials can be solid, liquids or gases• Understand that a mixture contains two or more materials, where the materials can be physically separated• Describe differences in the properties of solids and liquids• Understand that materials, generally, retain their properties within a mixture• Describe how to separate solid/solid mixtures based on the physical properties of the solids (processes involving dissolving are not required)• Describe how to separate a mixture of an insoluble solid and a liquid• Know that when a solid dissolves in a liquid the solid is still present, and this is an example of mixing	<ul style="list-style-type: none">• <i>Identify the state of a matter.</i>• <i>Separate the components of the mixture, such as evaporation, distillation, filtration and chromatography.</i>• Understand a solid has definite volume and shape, a liquid has a definite volume but no definite shape.• Understand the concept of dissolving• Dissolving solids into water to make solution. <p>STEM activity – make a simple thermometer and explore how temperature affects liquids and gases. Build a Homemade Thermometer to Measure Temperature STEM Activity (sciencebuddies.org) Colorful Patterns in Melting Ice. Colorful Patterns in Melting Ice STEM Activity (sciencebuddies.org)</p>	<p>Melting Ice :</p> <ul style="list-style-type: none">• Water balloons• Water• Freezer• Oven mitt• Small plates• Cup• Table Salt• Water dropper or syringe• Food coloring, preferably liquid• Workspace that can get wet• Towel to wipe your workspace• Optional: Flashlight <p>Home made thermometer : Clear plastic drinking straw, preferably a 0.2 inch diameter straw.</p> <p>Metric ruler</p> <p>Fine-tipped permanent marker</p> <p>Clean narrow-necked, small bottle with lid.</p>	
Key vocabulary	Going Green Link	Integration of technology	



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<ul style="list-style-type: none">• Solid, matter, states of matter, gas, liquid, temperature, heat, energy, condensation, melting, boiling point, freezing point, Solution, mixture	<ul style="list-style-type: none">- Introduce the topic of pollution. How gases and land pollution are affecting the earth.	<ul style="list-style-type: none">- Use videos to illustrate the changing state of matters and to model experiments. <p>Easy way to show evaporation- https://youtu.be/MGge_zsnKjQ?si=BLEhPrLfy0-gIBXA</p> <p>Simple way to show how gas is created https://youtu.be/Su4EbX6K5vc?si=4SYi5rIK_QZy1d6X</p>	<p>A few drops of red, blue, or green food coloring.</p> <p>Paper or cloth towels</p> <p>Modeling clay. Medicine dropper or syringe</p> <p>Water</p> <p>Small bowl</p> <p>Ice cubes</p> <p>Evaporation:</p> <p>Plastic cup, Sharpie</p> <p>Creating gas:</p> <p>Baking soda, Balloon ,vinegar</p> <p>Optional: Store-bought thermometer</p>
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