



TSS Primary Science MTP 2022-2023 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"> • Identify the state of a matter. • Separate the components of the mixture, such as evaporation, distillation, filtration and chromatography. • 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. • 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) 		<ul style="list-style-type: none"> • Melting Ice : • 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 • Home made thermometer : Clear plastic drinking straw, preferably a 0.2 inch diameter straw. • Metric ruler • Fine-tipped permanent marker • Clean narrow-necked, small bottle with lid.
Key vocabulary	Going Green Link	Integration of technology		
<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. 		



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			<ul style="list-style-type: none">• A few drops of red, blue, or green food coloring.• Paper or cloth towels• Modeling clay.• Medicine dropper or syringe• Water• Small bowl• Ice cubes• Optional: Store-bought thermometer
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