

# EaD Comprehensive Lesson Plans



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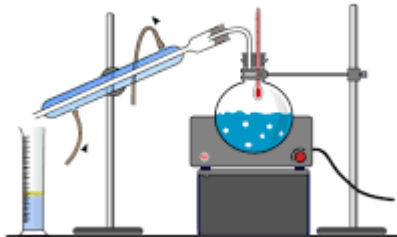
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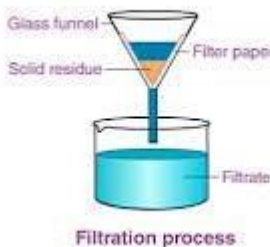

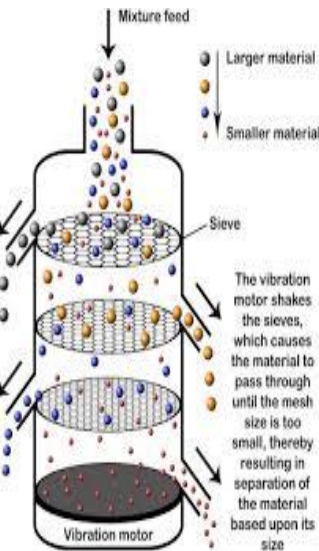
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**BASIC 8**

**WEEKLY LESSON PLAN – WEEK 4**

Strand:	Diversity of Matter	Sub-Strand:	Materials		
Content Standard:	B8.1.1.1. Demonstrate knowledge of types of mixtures, and understanding of the processes of scientific ways of separating the components of mixtures				
Indicator (s)	B8.1.1.1.2 Design and Perform processes for separating kinds of mixtures		Performance Indicator: Learners can separate Mixtures		
Week Ending	04-10-2024				
Class	B.S.8	Class Size:		Duration:	
Subject	Science				
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.				
Teaching / Learning Resources	Bottle tops, salt, sugar, sand, gari, gravel, oil, water, Poster, Pictures.		Core Competencies:	<ul style="list-style-type: none"><li>• Communication and Collaboration</li><li>• Critical thinking and Problem Solving</li><li>• Digital Literacy</li></ul>	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION
MONDAY	Show Learners pictures displaying the various methods of separating mixture.	<div><div>1. Assist Learners to explain the meaning of distillation.</div><div>2. Show Learners video of the process of distillation.</div><div>3. Demonstrate the distillation process.</div><div>4. Learners in small groups to discuss the step-by-step process of distillation and report to the class.</div></div> <div><div>DISTILLATION</div><div></div><div>Distillation is the process of separating the components of a liquid mixture through selective evaporation and condensation. The basis of separation is the difference in the vapor pressures (volatilities) of the respective components.</div></div> <td><div>Group Work</div><div>Carry out the distillation process.</div><div>Exercise;</div><div><div>1. What is Distillation?</div><div>2. Explain 4 benefits of Distillation.</div><div>3. Write the step-by-step procedure for distillation.</div></div></td>			<div>Group Work</div> <div>Carry out the distillation process.</div> <div>Exercise;</div> <div><div>1. What is Distillation?</div><div>2. Explain 4 benefits of Distillation.</div><div>3. Write the step-by-step procedure for distillation.</div></div>
THURSDAY	Through questions and answers, review Learners knowledge on the	<div><div>1. Discuss the meaning of Filtration with the Learners.</div><div>2. Learners brainstorm to identify materials used for the Filtration process.</div><div>3. Demonstrate the process of Filtration.</div><div>4. Assist Learners to carry out an experiment of Filtration.</div></div>			<div>Reflect on the processes involved when using the Filtration process to separate Mixture.</div> <div>Exercise;</div>

	previous lesson.	<p><b>Filtration definition</b></p> <p>Filtration is technically defined as the process of separating suspended solid matter from a liquid, by causing the latter to pass through the pores of a membrane, called a filter.</p> <p><b>example of filtration</b></p> <p>11 Filtration Examples in Daily Life</p> <ul style="list-style-type: none"> <li>• Coffee Filter.</li> <li>• Tea-bags.</li> <li>• Water Filters.</li> <li>• Sand Filtration.</li> <li>• HEPA Air Filters.</li> <li>• Automotive Filters.</li> <li>• Belt Filters.</li> <li>• Dialysis.</li> </ul>  <p style="text-align: right;">BYJU'S The Learning App</p>	<ol style="list-style-type: none"> <li>1. What is Filtration?</li> <li>2. State 4 materials used for the Filtration process.</li> <li>3. Write the step-by-step process of Filtration.</li> </ol>
<b>FRIDAY</b>	Learners brainstorm to explain the meaning of Sieving.	<ol style="list-style-type: none"> <li>1. Discuss the differences between Filtration and Sieving.</li> <li>2. Individual Learners brainstorm to identify the relationship between Sieving and Filtration.</li> <li>3. Carry out and experiment to explain the Sieving process.</li> </ol>   <p>Sieving is a method of using a sieve to distinguish small particles from bigger particles. It is used in flour mills or building sites. Impurities such as husks and stones are extracted from wheat at flour mill. They remove pebbles and stones from sand through sieving.</p>	<p>Learners to practice the Sieving process.</p> <p><b>Practical Work;</b></p> <p>Perform and experiment to explain the following methods of separating Mixture;</p> <ol style="list-style-type: none"> <li>i. Distillation</li> <li>ii. Filtration</li> <li>iii. Sieving</li> </ol>

Name of Teacher:

School:

District: