BASIC 8

WEEKLY LESSON PLAN – WEEK 3

<table>
<tr><td>Strand:</td><td colspan="2">Diversity of Matter</td><td>Sub-Strand:</td><td colspan="2">Materials</td></tr>
<tr><td>Content Standard:</td><td colspan="5">B8.1.1.1. Demonstrate knowledge of types of mixtures, and understanding of the processes of scientific ways of separating the components of mixtures.</td></tr>
<tr><td>Indicator (s)</td><td colspan="2">B8.1.1.1.1 Identify types of mixtures by name and characteristics</td><td colspan="3">Performance Indicator: Learners can identify and describe homogeneous and heterogeneous mixtures based on their characteristics.</td></tr>
<tr><td>Week Ending</td><td colspan="5">27-09-2024</td></tr>
<tr><td>Class</td><td>B.S.8</td><td>Class Size:</td><td></td><td>Duration:</td><td></td></tr>
<tr><td>Subject</td><td colspan="5">Science</td></tr>
<tr><td>Reference</td><td colspan="5">Science Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.</td></tr>
<tr><td>Teaching / Learning Resources</td><td colspan="2">Bottle tops, salt, sugar, sand, gari, gravel, oil, water, Poster, Pictures.</td><td>Core Competencies:</td><td colspan="2">• Communication and Collaboration
• Critical thinking and Problem Solving
• Digital Literacy</td></tr>
<tr><td>DAY/DATE</td><td>PHASE 1 : STARTER</td><td colspan="3">PHASE 2: MAIN</td><td>PHASE 3: REFLECTION</td></tr>
<tr><td>MONDAY</td><td>Review Learners knowledge on the previous lesson.</td><td colspan="3">1. Discuss with Learners the types of mixture.
2. Using a Power Point Presentation, explain the types of Mixture.
3. Assist Learners to identify the properties of mixture.

Types of Mixtures:

• Homogeneous Mixtures:
o Appear uniform throughout
o Medium-sized particles (large enough to see, but not large enough to settle or be filtered out)
o Examples: gulaman drink, salty water, chocolate powder and water
• Heterogeneous Mixtures:
o Visually distinguishable components
o Large particles (can settle or be filtered out)
o Examples: sand and water, oil and water</td><td>Through questions and answers, conclude the lesson.

Exercise;

1. State and explain the types of Mixture.
2. Explain 3 properties of Mixture.</td></tr>
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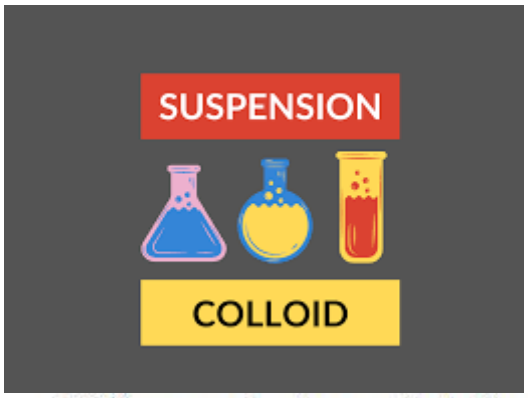
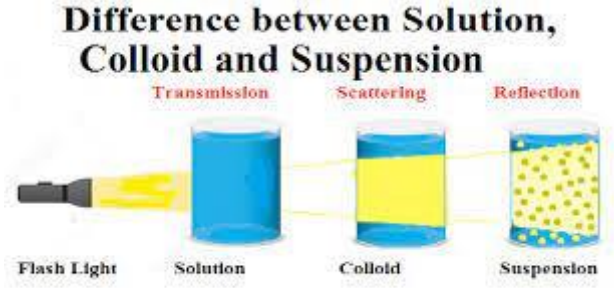
THURSDAY	Learners brainstorm to explain the meaning of Suspension as a type of Mixture.	1. Demonstrate an experiment to explain Suspension. 2. Assist Learners to carry out an experiment of Suspension as a type of Mixture. 3. Learners brainstorm to explain the term "Allegation" in relation to Mixture. **Properties and Characteristics of Mixtures** The properties of mixtures are as follows: 1. The original physical and essentially the chemical properties of the substances remain intact without any changes. 2. The separations of the substances from the mixture can easily be done as it is just a mechanical blending process 3. The substance does not share any chemical bonding while in a mixture. 4. The proportions in which the substances are dissolved is variable. 5. 6. The Characteristics of the Mixture are as Follows:- 1. The two or more substances are existing together despite there being no force acting between them. 2. The substances in the mixture are either homogeneous or heterogeneous in nature. 3. The proportions of the substances that are present in the mixture vary in an indefinite manner. 4. The properties of the individual components determine the properties of the mixture. 5. The physical method is the key to separating the substances that are dissolved in the mixtures. 6. The characteristics of the substances determine the boiling and the melting point of the mixture. 7. There is no change in the energy during the formation of the mixture. 8. All the state of matter that is solid, liquid or gases can combine to form a mixture.	Summarize the lesson. **Exercise;** 1. What is Suspension? 2. State 3 examples of Suspension of Mixture.

FRIDAY	Discuss the meaning of Colloid with the Learners.	1. Assist Learners to differentiate between Colloid and Suspension. 2. Learners in small groups to discuss and report to the class colloidal effect of a Colloid in a suspension. 3. Discuss the meaning of Colloidal effect with the Learners.  	Reflect on the difference between Colloid and Suspension. **Exercise;** Differentiate between Colloid and Suspension.

Name of Teacher: **School:** **District:**