For Indian Students

Kurikulum Merdeka

UNNES

WORKSHEET

SEPARATION OF MIXTURES

for VIII Class/ Even Semester

Group : _____

Name : _____

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LIVEWORKSHEETS

Learning outcomes

Science understanding

At the end of phase D, students are able to classify living things and objects based on observed characteristics, identify the properties and characteristics of substances, distinguish physical and chemical changes, and separate simple mixtures.

Process skills

- Observing
- Questioning and predicting
- Planning and conducting investigations
- Processing, analyzing data and information Presenting data
- Evaluating and reflecting
- Communicating results

Learning Objectivs

Students through experimental activities are able to understand the types of mixture separation and practice simple mixture separation.

Approach

Sientific & Guided Inquiry Lab

Instructions for using the worksheet

- Pray before starting to work on the Worksheet
- Prepare the tools and materials needed to work on the Worksheet
- Read carefully and thoroughly every guide in the Worksheet
- Complete the tasks in the Worksheet properly, correctly, and responsibly
- Use learning resources from various sources, including learning modules, stud books, the internet, and other sources to answer questions.
- Collect the Worksheet according to the specified time.
- Ask the teacher if you have difficulty working on the Worksheet



LIVEWORKSHEETS

STEP 1 : STIMULATION



The picture presented shows the condition of the Ganges River which is murky mixed with soil. Is this a type of mixture? Explain.

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If it is a mixture, can the mixture of water and ground be separated?

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How do you separate a mixture of water and soil?

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LIVEWORKSHEETS

STEP 2 : PROBLEM IDENTIFICATION

Based on these problems, make 2 problem formulations about separating mixtures!

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From the problem formulation, make the purpose of experiment!

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Make a hypothesis od experiment!

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LIVEWORKSHEETS

STEP 3 : DATA COLLECTION



What tools and materials need to be prepared to separate the mixture using a simple method?

Tools and materials

1. Plastic glass (6 pcs)
2. Ground
3. Oil
4. Sugar
5. Water
6. Tissue



EXPERIMENTAL STEP

1. Prepare the tools and materials
2. Mix the soil with water and stir well.
3. Do the some steps for oil water and salt water in different glass
4. carry out the next steps for the process of separating the mixture according to your understanding



LIVEWORKSHEETS

STEP 3 : DATA COLLECTION

Experimental results

	Ground water	Oil Water	Sugar Water
Experimental results			

STEP 4 : DATA ANALYSIS

Based on the experiments that have been conducted, can the mixture above be separated? Explain.

What characteristics did you find in the mixture from the experiment?



LIVEWORKSHEETS

STEP 4 : DATA ANALYSIS

Which is a type of heterogeneous mixture and its origin is a homogeneous mixture? Explain

STEP 5 : VERIFICATION

Based on the experiment, can the hypothesis you made be proven? Explain

RESULTS

What is the conclusion of the mixture separation experiment?



LIVEWORKSHEETS