

Science Homework

Sections 5A, B, C, D, & E

February 12-16, 2024

Day	Homework
Monday	Page 1: Changes in Matter Questions
Tuesday	Page 2: Mixtures and Solutions "Sum it Up"
Wednesday	Page 3: Mixture or Solution?
Thursday	Topic 4 Properties of Matter Test – No Homework
Friday	No homework, enjoy your weekend! ☺

Reminders

- **HW due Friday 2/16/24**
- **Topic 4 Properties of Matter Test, Thursday, 2/15/24**
- Study materials (notes, videos, lesson slides, extra practice, etc.) can be found in Archie under Science Resources.

VOCABULARY

atom	freezing point
molecule	melting point
matter	physical change
measure	temperature
volume	phase changes
mass	melting
weight	boiling
meter	freezing
centimeter	evaporation
millimeter	condensation
liter	chemical changes
milliliter	chemical reaction
gram	combustion
kilogram	evidence
particles	mixture
solid	solution
liquid	particles
gas	dissolve
degrees	conservation of
Celsius	matter
Fahrenheit	
thermometer	

[Topic 4 Properties of Matter Vocabulary Quizlet](#)



Discussion Questions

Directions: Answer the following questions in the space provided or out loud.

1. What is a physical change?
2. What are some examples of physical changes in matter?
3. What is a chemical change?
4. What are some examples of chemical changes in matter?
5. What is a chemical reaction?
6. Write out an example of a chemical reaction.
7. What are some physical changes that occur at school? At home? In nature?
8. What are some chemical changes that occur at school? At home? In nature?

Mixtures and Solutions

Sum It Up

Write **S** if the photo and caption describe a mixture that is a solution.

Write **M** if they describe a mixture that is NOT a solution.

_____ 1. When you combine ingredients to make a sandwich, each ingredient keeps its identity. You could easily separate them.



_____ 2. Soft drinks are made by dissolving a gas and other ingredients in water. The dissolved particles are much too small to be seen.



_____ 3. The solid bits of orange pulp do not dissolve in the liquid. Because the pulp particles are large, they will eventually settle out.



_____ 4. Particles of several different gases make up air. Air on one side of a room is just like the air on the other side.



Fill in the missing words to tell how to separate mixtures. Use the words in the box to complete each sentence.

sand
filter

evaporate or boil
magnetic

larger
screen

dissolves

To sort the items in your junk drawer, you'd use observable (5) _____ such as size, color, shape, and (6) _____ attraction. But how would you separate table sugar, sand, and pebbles? Because the pebbles are (7) _____ than the grains of sugar and sand, you could remove them using a sieve, or mesh (8) _____.

You could then add water and shake until the sugar (9) _____. If you poured this mixture through a coffee (10) _____ into a beaker, the (11) _____ would be left on the filter, but the sugar solution would pass through. Adding heat would cause the water to (12) _____, leaving solid sugar behind.

Name: _____

Date: _____

Mixtures and Solutions

Mixture or Solution?

Put a checkmark in the box if the following items are mixture or solution

sandwich



☐ mixture ☐ solution

steel sculpture



☐ mixture ☐ solution

box of toys



☐ mixture ☐ solution

trail mix



☐ mixture ☐ solution

shells



☐ mixture ☐ solution

coffee



☐ mixture ☐ solution

soda



☐ mixture ☐ solution

brass trumpet



☐ mixture ☐ solution

box of crayons



☐ mixture ☐ solution