

Physical And Chemical Change Worksheet

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Part 1: Building a Foundation
Which of the following is an example of a physical change?
Hint: Think about changes that do not alter the chemical composition.
A) Burning wood C) Melting ice
D) Baking a cakeC) Rustin iron
Select all the indicators of a chemical change:
Hint: Look for signs that indicate a new substance is formed.
A) Change in state
C) Formation of a precipitate
D) Change in shape
C) Production of gas
Define a chemical change and provide two examples.
Hint: Consider changes that result in new substances.

List two physical properties and two chemical properties of matter.



Hint: Think about properties that can be observed without changing the substance.
1. Physical Property 1
2. Physical Property 2
3. Chemical Property 1
4. Chemical Property 2
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Which property is observed without changing the substance's identity?
Hint: Consider properties that do not alter the chemical structure.
A) Chemical property
C) Reactivity
D) FlammabilityC) Physical property
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Dort 1. Comprehension and Application
Part 2: Comprehension and Application
What happens to the molecules of a substance during a physical change?
Hint: Think about the arrangement of molecules.
○ A) They form new substances.
C) They remain the same but rearrange.
D) They disappear.C) They change their chemical structure.
Of They change their chemical structure.
Which of the following are examples of chemical changes?
Hint: Identify changes that result in new substances.
A) Digest food
C) Lighting a match
D) Dissolving sugar in water

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C) Freezing water
Explain why melting is considered a physical change and not a chemical change.
Hint: Consider the nature of the change and the substance involved.
Describe two scenarios where a color change indicates a chemical change.
Hint: Think about reactions that produce new substances.
1. Scenario 1
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2. Scenario 2
If you observe bubbles forming when two liquids are mixed, what type of change is likely occurring?
Hint: Consider whether a new substance is being formed.
A) Physical changeC) No change
D) Phase change
○ C) Chemical change
In which scenarios would you expect a chemical change to occur?
Hint: Look for reactions that produce new substances.
A) Mixing vinegar and baking soda
C) Baking bread
D) Cutting paper
C) Melting butter

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Describe a real-world example where both physical and chemical changes occur simultaneously.	
Hint: Think about processes that involve both types of changes.	
Part 3: Analysis, Evaluation, and Creation	
Which of the following best explains why rust forms on iron?	
Hint: Consider the environmental factors that contribute to rust formation.	
○ A) Physical abrasion	
C) Exposure to sunlight	
D) Change in temperatureC) Chemical reaction with oxygen	
Analyze the following scenarios and identify which involve a chemical change:	
Hint: Look for changes that produce new substances.	
A) A candle burning	
C) A nail rustling	
D) Water boiling	
C) Ice melting	
Analyze the process of digestion and explain why it is considered a chemical change.	

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Hint: Consider the breakdown of food into new substances.



Break down the process of photosynthesis and identify the chemical changes involved.
Hint: Think about the reactants and products of photosynthesis.
1. Reactant 1
2. Reactant 2
3. Product 1
4. Product 2
Which process would you evaluate as having the most significant environmental impact due to chemical changes?
Hint: Consider processes that release pollutants or alter ecosystems.
A) Combustions of fossil fuels
C) Evaporation of water
O) Dissolution of salt in water
C) Melting of ice caps
Evaluate the following statements and select those that accurately describe the impact of chemical changes:
Hint: Consider the effects of chemical changes on health and the environment.
A) They can release harmful gases.
C) They can produce energy.
D) They never affect the environment.

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C) They are always reversible.
Create a hypothetical experiment to demonstrate a chemical change, including the materials and procedure.
Hint: Think about a simple reaction that can be observed.
Propose two methods to prevent rust and explain the chemical principles behind them.
Hint: Consider methods that inhibit oxidation.
1. Method 1
2. Method 2