

Chemical And Physical Changes Worksheet

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Part 1: Building a Foundation		
Which of the following is an indicator of a chemical change?		
Hint: Think about changes that result in new substances.		
○ Melting ice		
○ Breaking glass		
O Formation of a precipitate		
O Dissolving sugar in water		
Which of the following are examples of physical changes? (Select all that apply)		
Hint: Consider changes that do not alter the chemical composition.		
☐ Ice melting		
☐ Iron rusting		
☐ Sugar dissolving in water		
☐ Baking a cake		
Define a chemical change and provide two examples.		
Hint: Think about processes that create new substances.		

List two characteristics of physical changes and provide an example for each.



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Hint: Consider the properties that remain unchanged.
1. Characteristic 1
2. Example 1
2. Example 1
3. Characteristic 2
4. Example 2
Part 2: Comprehension and Application
Which statement best describes a physical change?
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Hint: Focus on the nature of the change and its effects.
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Hint: Focus on the nature of the change and its effects. It results in the formation of new substances. It is always irreversible. It involves a change in physical properties without altering chemical identity. It always produces a gas. Which of the following statements are true about chemical changes? (Select all that apply) Hint: Consider the nature of chemical changes and their effects. They are usually reversible. They involve the formation of new substances. They often involve energy changes.

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Hint: Think about processes that involve both types of changes.



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You observe a color change when mixing two clear solutions. What type of change occurring?	is likely
Hint: Consider the implications of a color change.	
O Physical change	
○ Chemical change	
○ No change	
○ Phase change	
Part 3: Analysis, Evaluation, and Creation	
Which of the following processes can be classified as both a chemical and physica	ıl change?
Hint: Think about processes that involve both types of changes.	
O Boiling water	
○ Burninging a candle	
○ Cutting paper	
○ Freezing water	
Analyze the following scenarios and identify which involve chemical changes. (Sel	ect all that anniv
	ect an that apply)
Hint: Consider the nature of the changes in each scenario.	
Baking bread	
Melting butter	
Photosynthesis in plants	
Shreddinging paper	

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occur.

Hint: Think about the different stages of digestion.



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Which scenario best illustrates the concept of reversibility in p	physical changes?
Hint: Consider changes that can be undone.	
O Burninging wood	
O Dissolving salt in water	
○ Cooking an egg	
Rustinging of iron	
Evaluate the following statements and identify which are corrected reactions. (Select all that apply)	ct regarding the energy changes in
Hint: Consider the nature of energy changes in reactions.	
All chemical reactions release energy.	
Some chemical reactions absorb energy.	
Energy changes are not involved in chemical reactions.	
Exothermic reactions release heat.	
Propose a simple experiment to demonstrate a chemical change the expected observations.	ge, including the materials needed and
Hint: Think about common reactions that are easy to observe.	
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