

Use this handout as a guide
COMPLETE ASSIGNMENT IN YOUR NOTEBOOK
 Refer to format for additional instructions.

Decomposition of Hydrogen Peroxide: $\text{H}_2\text{O}_2 \rightarrow$

Purpose (Learning Target)

Hypothesis:

According to the Law of Conservation of Mass, when hydrogen peroxide undergoes a decomposition reaction, _____ will be produced.

Materials/Procedure /Results (Data/Observations):

Must include: A drawing with labels of the set up.

Descriptive captions/observations

CATEGORY	4	3	2	1
Materials/ Procedure	Exceptional detail	All materials and setup used in the experiment are clearly and accurately described. Procedures are listed in clear steps. Each step is numbered and is a complete sentence.	Most of the materials and the setup used in the experiment are accurately described. Procedures are listed in a logical order, but steps are not numbered and/or are not in complete sentences.	Many materials are described inaccurately or not described at all. Procedures do not accurately list the steps of the experiment or no procedure given
Drawings/ Diagrams	Exceptional detail	Clear, accurate diagrams are included and make the experiment easier to understand. Diagrams are labeled neatly and accurately.	Diagrams are included and are labeled.	Needed diagrams are missing important labels.
Observations/ Notes/Captions	Exceptional detail	At least 4 additional observations are included which describe details of the event.	2-3 additional observations are included which describe details of the lab.	0-1 additional observation is included which describe details of the lab

Analysis

Level 1: Define decomposition reactions

Level 2: Clearly identify how we would (or could) know if hydrogen peroxide decomposed into hydrogen (H_2).

Clearly identify how we would (or could) know if hydrogen peroxide decomposed into oxygen (O_2).

Levels 3 & 4: See format for instructions.

Important: You must only use data/observations that are recorded in your write up.

Conclusion

CATEGORY	4	3	2	1
Analysis	Extended discussion of products and conservation of mass	Observable products are clearly identified. Explain why / how you identified the product(s)	One Item Missing	2 or more items missing
Conclusion	In addition to the proficient requirements, paragraph includes insightful additions to the rationale to the discussion of the hypothesis, what you learned, and the "I wonder". Clear reference to scientific principles and data should be included.	<input type="checkbox"/> Topic sentence restates the purpose <input type="checkbox"/> Acceptance/rejection of the hypothesis is clearly identified. <input type="checkbox"/> A brief explanation of why the hypothesis was accepted/rejected. <input type="checkbox"/> A logical "what was learned" statement related to the data/purpose. <input type="checkbox"/> I wonder comment is a logical next step to further research that is related to the original purpose.	One Item Missing	2 or more items missing