Thermal Decomposition

Keyword: Decomposition

Definition:

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Keyword: Thermal Decomposition

Definition:

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Keyword: Discrete variable

Definition:

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Write the definitions of the keywords

What is a decomposition reaction?

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Complete the word equations for the decomposition reactions below:

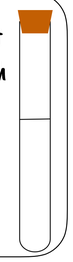
Copper carbonate → + Carbon dioxide

→ Lead oxide +

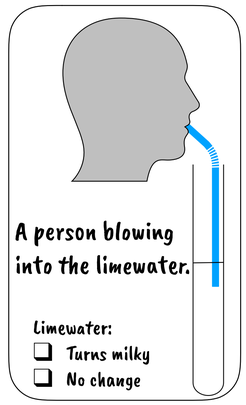
Zinc carbonate → +

Limewater turns milky/ cloudy in the presence of carbon dioxide. Look at the experiment setups below. For each one tick the box to state whether the limewater will turn cloudy or not.

Limewater is left in a testube with a bung on.



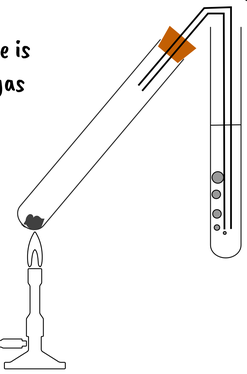
Limewater:
- ❑ Turns milky
- ❑ No change



A person blowing into the limewater.

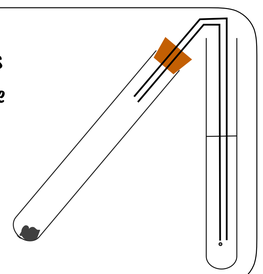
Limewater:
- ❑ Turns milky
- ❑ No change

Copper carbonate is heated and the gas bubbles through limewater.



Limwater:
- ❑ Turns milky
- ❑ No change

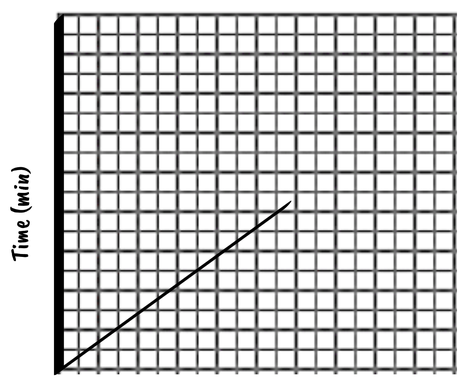
Zinc carbonate is put in a test tube but no heat is applied.



Limewater:
- ❑ Turns milky
- ❑ No change

Use the data in the table to plot a bar graph.

Reactant	Time taken for limewater to turn cloudy (min)
Copper carbonate	0.5
Zinc carbonate	3.0
Lead carbonate	1.5



This data is discrete. What does this mean?

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