

Home Assignment

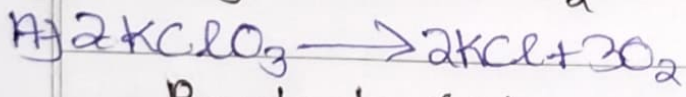
1. What are the significance of balancing a chemical equation? (2 marks)

Ans) It satisfies the Law of Conservation of Mass.
 • It makes the study of chemistry universally standardized.

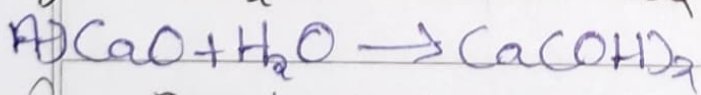
2. State the Law of conservation of mass. (1 mark)

Ans) The Law of Conservation of Mass was given by Antoine Lavoisier in 1789. It states that "Mass is neither created nor destroyed in a chemical reaction."

3. Balance the following equations: - (2 marks)



Reactant Side	Product Side
$K = 1 \times 2 = 2$	$K = 1 \times 2 = 2$
$Cl = 1 \times 2 = 2$	$Cl = 1 \times 2 = 2$
$O = 3 \times 2 = 6$	$O = 2 \times 3 = 6$



Reactant Side	Product Side
$Ca = 1$	$Ca = 1$
$O = 2$	$O = 2$
$H = 2$	$H = 2$