Reactions

4. Types of Reaction

CONCEPT 3

TEST YOURSELF

CONSERVATION OF MASS

KNOW

- Q1 If 15g of juice is frozen, what will the mass be f the frozen juice?
- Q2 Explain why melting does not cause a change in mass.

AP	PLY					
Q3	How does the particle model in the diagram below help to show the conservation of mass?	zinc	+	oxygen	\rightarrow	zinc oxide
		64 g Rea	+ actants 8	16 g	→	64 + 16 = 80 g Product 80 g

Q4 Calculate the mass of the products in these reactions.

a)	magnesium (24g)	+ oxygen \rightarrow magnesium oxide (16 g)
b)	$S(32g) + O_2$	$(32 g) \rightarrow SO_2$



Q5 Use the equation to explain the conservation of mass for the thermal decomposition of calcium carbonate.

calcium carbonate	\rightarrow	calcium oxide	+	carbon dioxide
CaCO ₃	\rightarrow	CaO	+	CO2
100 g		56 g		44 g

Q6 If the gas could escape, what would the start and end mass be for this reaction?