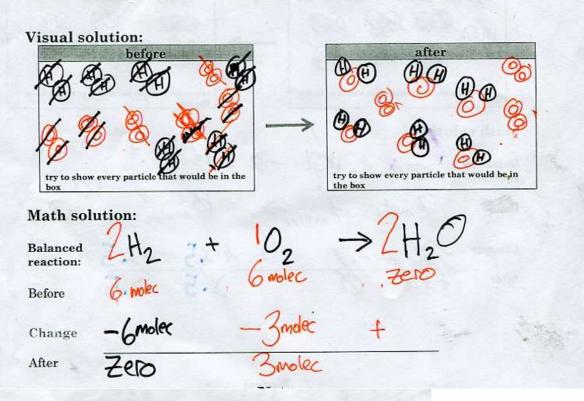
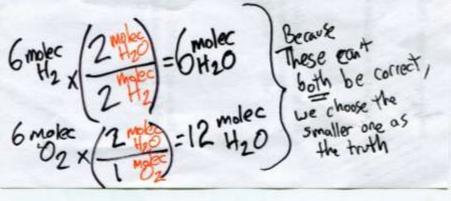
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Chemistry - class notes

Purpose: How do we predict what happens when the amounts of reactants are not perfectly matched?

Example 1: Calculate the number of moles of water that should be produced when 6 molecules of hydrogen react with 6 molecules oxygen gas.



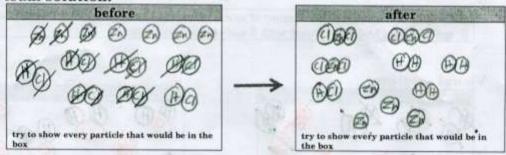


OThe substance leftover is called
the Excess REACTANT (example:
Out of is the LIMITING REACTANT
(example:
Arbrever)

3 stateon: Use both reactors
to calculate product. The smaller product is
to calculate product. The smaller product is

Example 2: If seven molecules of zinc react with seven molecules of hydrochloric acid (HCl) to produce zinc chloride and hydrogen gas.

Visual solution:



Math solution:

Balanced reaction:
$$Zn + 2HCI \rightarrow ZnC/2 + iH2$$

Before $Implies = Implies = I$