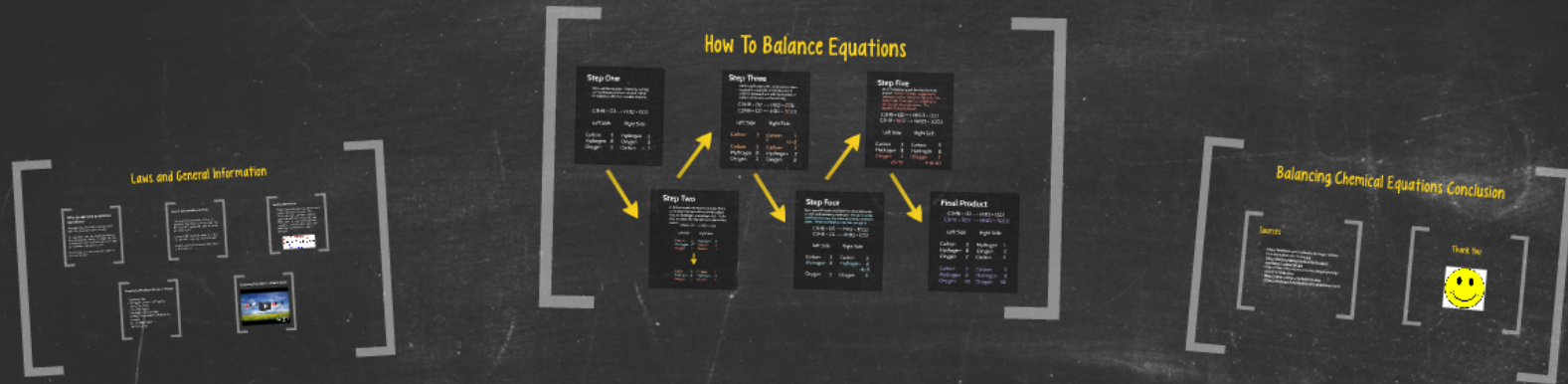


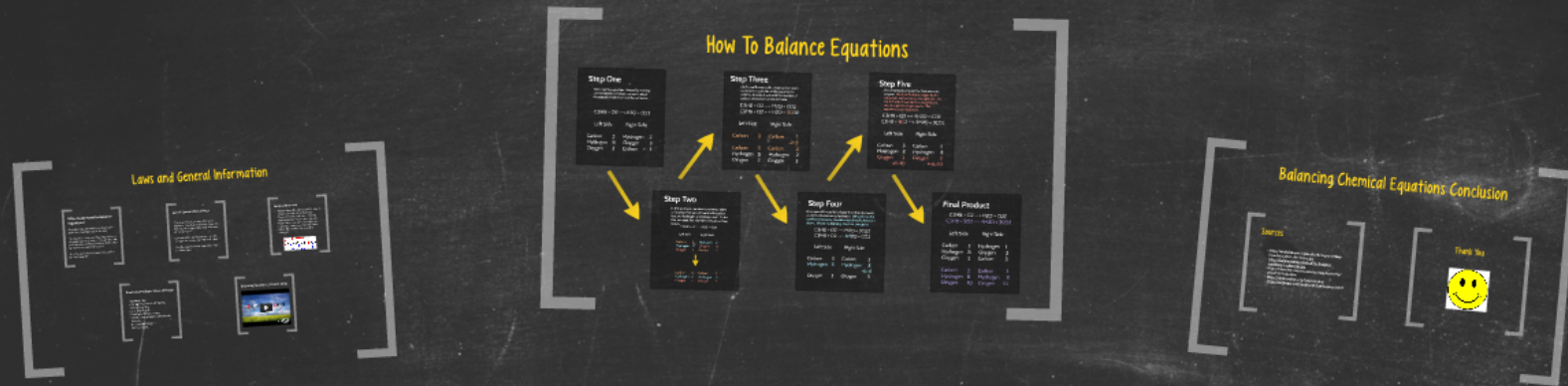
Balancing the Power Equation: Suzlon Energy Limited



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Laws and General Information

Why do we need to balance equations?

Chemical equations need to be balanced in order for a chemical reaction to occur.

The equation cannot be unbalanced during a chemical reaction because it violates the *Law of Conservation of Mass* that states that matter cannot be created nor destroyed.

This is because matter is not destroyed in a chemical reaction.

Law of Conservation of Mass

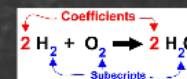
"The Law of Conservation of Mass is a relation stating that in a chemical reaction, the mass of the products equals the mass of the reactants."

Essentially the law that prevents matter/energy from being created or destroyed.

Also the reason chemical equations need to be balanced.

General Overview

- Try to balance the element with the least amount of reactants and products.
- The same number of atoms must be applied to both sides of the equation.
- Equal atoms is achieved through the changing or movement of coefficients.
- Subscripts *CANNOT* be moved or changed.



Reactants/Products States of Matter

- Optional step
- Use (g) for gaseous substances
- Use (s) for solids
- Use (l) for liquids
- Use (aq) solutions/water
- Written immediately following the formula.
- Ex. $\text{SnO}_2(\text{s}) + \text{H}_2(\text{g}) \rightarrow \text{Sn}(\text{s}) + 2\text{H}_2\text{O}(\text{g})$

Balancing Equations 3 Minute Steps



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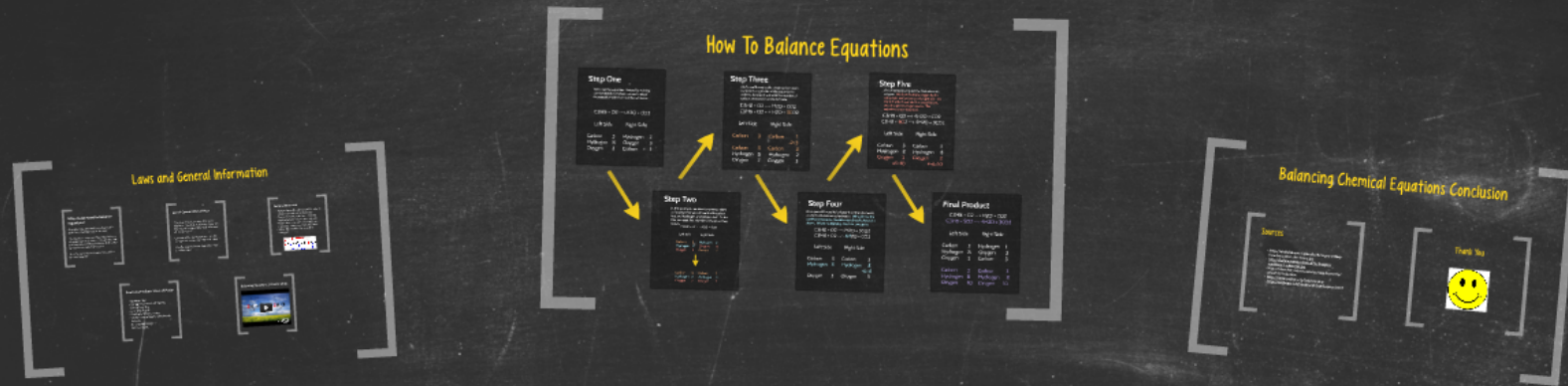
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