**Chemistry Revision Questions**

1. **What is law of conservation of mass?**
2. **What is a chemical equation?**
3. **Identify the reactants and products of the following reaction:**

**Magnesium reacts with oxygen produces magnesium oxide.**

1. **What is the difference between exothermic and endothermic reactions? Give examples.**
2. **Explosion reactions are endothermic or exothermic ?**
3. **What is neutralisation reaction? Give an example.**
4. **Learn how to balance equations. Practice the following equations**
5. H2 + O2⭢H2 O
6. HCl + NaOH → NaCl + H2O
7. **Oxygen (O2) gas reacts with methane(CH4) produces carbon dioxide( CO2) and water(H2O)**

**Using question 8:**

1. Write a word equation for that reaction
2. Write a chemical equation
3. Identify reactants and products of the reaction
4. Construct an unbalance equation

9) Balance the following equations

a) ----------- CH4 + ----------- O2 🡢 ---------------- CO2 + H2O

b) 

**10. Learn endothermic and exothermic reactions graphs from connect PowerPoint notes chapter – 8.3 – slide 6**

10. Learn

Hydrochloric acid – HCl

Sodium hydroxide- NaOH

Ammonia- NH3

Sulfuric acid- H2SO4

**11.What are the main properties of acids and bases.**

* Acids taste sour
* 2. acids produce a prickling or burning sensation if they contact skin.
* 3. All acids contain at least one hydrogen atom.
* 4. They tend to react with many metals.
* Strong acids are dangerous because they can burn
* through objects. Weak acids are much safer and we can eat and drink some of them.
* **Properties of bases**
* 1. They are bitter and feel slippery or soapy to touch.
* 2. Bases that dissolve in water are called **alkalis** and
* solutions that are formed by these soluble
* bases are described as **alkaline** solutions .

12. Lear about pH.