

Bangladesh International Tutorial  
Subject: Chemistry Class VII

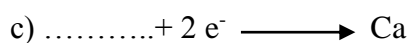
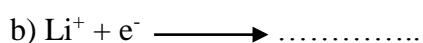
Second Week: 12-16<sup>th</sup> April

Worksheet 1

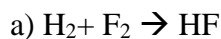
1. True and False:

- a) Reduction is the gain of oxygen.
- b) Oxidation is the loss of oxygen.
- c) Blast furnace is used for the extraction of iron.
- d) Solid compounds don't conduct electricity.

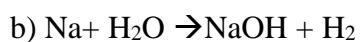
2. Complete the following half-equations:



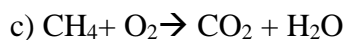
3. Balance the following equations:



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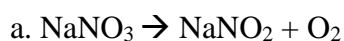
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Worksheet 2

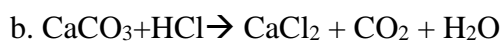
1. Answer the following questions:

- a. Write down two differences between chemical change and physical change.
- b. Define oxidation and reduction.
- c. What are allotropes? Name two allotropes of carbon.

2. Balance the following equations:



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Worksheet 3

1. What is covalent bond? Give three examples.
2. Draw the covalent bonding in CO<sub>2</sub>.
3. Diamond and graphite are allotropes of carbon. Diamond does not conduct electricity whereas graphite does- explain.
4. Simple molecular structures have weak intermolecular forces – explain.
5. Draw the electronic configuration of the following:
  - a. Na
  - b. Mg
  - c. N
  - d. O

**Video explaining the differences between ionic and covalent bonding**

[https://www.youtube.com/watch?v=S\\_k0kr2eZSQ](https://www.youtube.com/watch?v=S_k0kr2eZSQ)