Integrated- Science **Form 3 – D, L & S**

Revision **Date: 30/03/2020**

Week 1 (Biology)

1. Define the term sense organs
2. Identify the stimulus/stimuli each sense organs detects

Sense organs	Stimuli
1. Eyes	
2. Nose	
3. Skin	
4. Tongue	
5. Nose	

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Table 1: Sense organs and Stimuli

3. **Complete the diagram below by filling in the blank spaces**

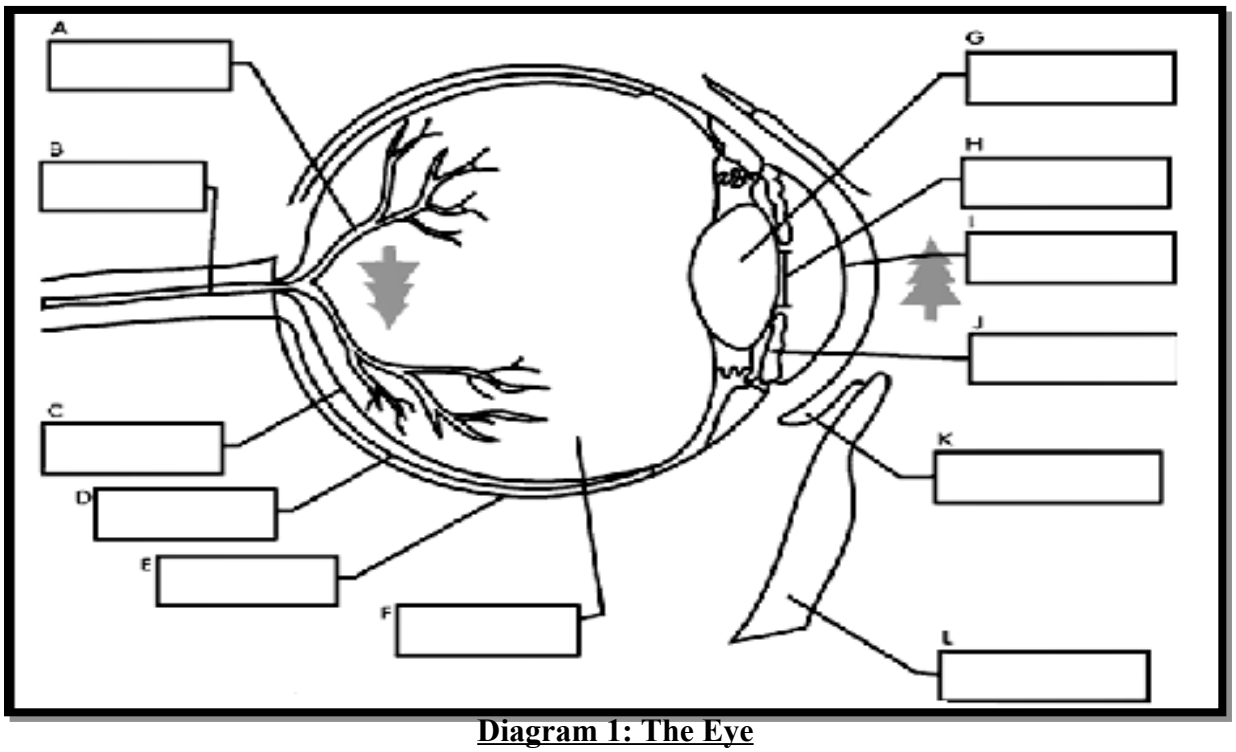

Diagram 1: The Eye

4. Explain how images are formed
5. Outline any two (2) eye defects of the eyes

Circulation

1. What are main functions of the circulatory system?
2. Identify the components of the circulatory system
3. List the components of the blood

4. State the function of each components stated above

5. **Complete the diagram below by filling in the blanks on the diagram**

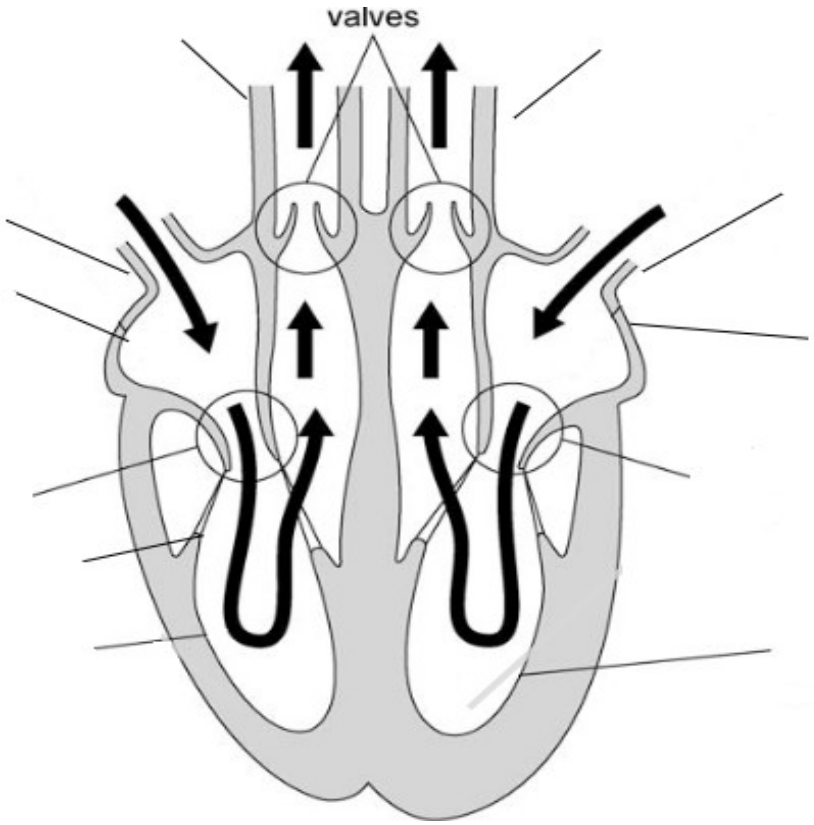

Diagram 2: The Heart

Week 2 – (Chemistry)

1. Define the term mass number

2. Complete the diagram below by filling in the nuclear notation (symbols) in the blank spaces provided.

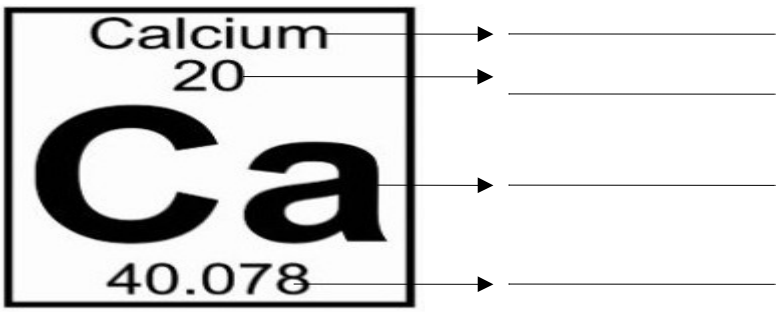

Diagram 3: Nuclear Notation

3. Differentiate between alkaline earth metals and alkali metals with the use of examples for each

4. Construct the electronic configuration for the first 10 elements on the periodic table
5. State two examples of Halogens and Noble gases.
6. Explain the different types of bonding of atoms
7. Using a diagram show how covalent bonding occurs between two chlorine atoms and how Ionic bonding occurs between Calcium and Oxygen.

Week 3 – (Chemistry)

1. Define the term pollution
2. Explain what is meant by the term acid rain
3. State two (2) pollutants that contributes to acid rain
4. State the damages/effects acid rain cause on the environment
5. Differentiate between air pollution and global warming
6. Name two (2) pollutants which contributes to air pollution
7. Explain two (2) impacts of air pollution and global warming on the environment
8. Explain the functions of formic acid and Hydrochloric acid
9. Give one chemical reaction to showing the following :
   - Acids reacting with bases
   - Acids reacting with carbonates
   - Acids reacting with metals
10. Identify the reactants and products in the reaction