

NAME:.....CLASS:.....

**SECOND TERM E-LEARNING NOTES
JS 1 (BASIC 7)**

SUBJECT: BASIC SCIENCE

SCHEME OF WORK

WEEK TOPIC

- 1. Disease prevention: Clean water**
- 2. Prevention of STI's, HIV\AIDS.**
- 3. Drug Abuse/Addiction/misuse and sources of drugs**
- 4. The earth in space.**
- 5. Description of eclipse, climate and seasons.**
- 6. Matter.**
- 7. Classification of matter.**
- 8. Plants and animals.**
- 9. Characteristics of living things.**
- 10. Activities of living things.**
- 11. Revision for the term.**
- 12. Examination.**

WEEK 1

DATE.....

TOPIC: Disease Prevention

CONTENT

- Water borne diseases; cholera, diarrhea, typhoid.
- Sources of clean water
- Water treatment processes
- Immunization against human diseases

Sub-topic 1

Water borne diseases

Diseases caused by unclean (dirty) water are called water borne diseases. The following are some of the water borne diseases.

- (1) **CHOLERA:** It is caused by harmful bacteria that inflame the intestine and cause extreme diarrhea. Cholera is the most common diseases that can be contacted by drinking unclean water.

The symptom of cholera is frequent stooling with vomiting which lead to dehydration. Cholera can be prevented by boiling water before drinking.

- 2. DYSENTRY:** It can be caused by a one-celled animal called Amoeba or by certain bacteria.

3. DIARRHOEA: the symptom of diarrhea is frequent stooling which leads to dehydration, abdominal pains, bloating of the belly, feverish conditions and cramps. To prevent diarrhea, the food we eat and our drinking water should be hygienic.

4. TYPHOID: It is caused by bacteria called salmolena typhi. Symptoms of typhoid fever manifest within three weeks of infection.

Symptoms include feeling cold, serious headache, running stomach, Constipation, enlarged liver and spleen and high fever. Typhoid fever could be prevented by boiling water before drinking, hygienic handling of food and being immunized against the diseases.

Sources of clean water.

- 1 Pipe-borne water
- 2 Spring water.
- 3 Rain water
- 4 Deep well water

Evaluation

Mention three borne diseases.

List the sources of clean water.

Sub-topic: 2: Water treatment processes

FILTRATION: - This is the process of removing impurities i.e. mud, soil, leaves from water. Filter paper is used in the laboratory while filter beds are used at water co-operations.

CHLORINATION: - Chlorine gas is added to water to kill bacteria. It is harmless to human beings. It is also used to purify the water in swimming pools.

DISTILLATION: - This is a process of obtaining pure water from impure water by using an apparatus called Lie Bib Condenser.

DESALINATION: - This is the process of taking away salt from sea water.

FLOCCULATION: This is the dissolution and stirring of alum in water to make tiny solid particles suspended in water to stick together (flocculate).

Advantages of using pipe-borne water

1. It is clean and colourless.
2. It is odourless.
3. it is tasteless.
4. It is conveniently available in the home.
5. It is treated to kill disease-causing living organisms.
6. Suspended matter has been removed.

Sub-Topic 3

IMMUNIZATION

Immunization is a method of stimulating resistance against specific diseases...