

Date 14th April, 2020  
Class JSS 2  
Subject Basic Science  
Topic Human Excretory System

Instructional Objectives: At the end of the lesson, students should be able to:

- (a) define excretion;
- (b) identify excretory organs and excretory products;
- (c) mention the urinary organs;

Previous Knowledge Students have learnt excretion as a characteristic of living things

Instructional Materials: A chart of human excretory system

Reference Books Akintelure, B.B and others (2012): Classic Basic Science. Lagos: Thursmay Publishers

NERDC (2013): Basic Science for JSS3. Lagos: Longman

### Content

Excretion is the removal of all waste product of metabolism from the body. Metabolism involves digestion, respiration, blood circulation and so on.

### EXCRETORY ORGANS AND THEIR PRODUCTS

EXCRETORY ORGAN	EXCRETORY PRODUCTS	EXCRETORY FORM
Lungs	Carbon (IV) oxide, water vapour	Gas
Kidney	Urea, water, sugar, mineral salt	Urine

Skin	Water, mineral salt, urea	Sweat
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The organs involved in the formation of urine are collectively called urinary system. These are the kidney, ureter, bladder and urethra

### **Functions of the Kidney**

- 1 it helps in formation and removal of urine
- 2 it regulates the amount of water in the body
- 3 it purifies the blood by removing harmful waste substances from the body

Evaluation Teacher asks students the following questions:

- (a) Define excretion
- (b) Identify excretory organs and their products

Conclusion: Teacher gives a concise note to students, marks same.

Date 16th April, 2020

Class JSS 2

Subject Basic Science

Topic Human Excretory System

Instructional Objectives: At the end of the lesson, students should be able to:

(a) explain the skin as an excretory organs;

(b) state the functions of the skin

Instructional Materials      A chart of the human excretory system

Reference Books      Akintelure, B.B and others (2012): Classic Basic Science. Lagos: Thursmay Publishers

NERDC (2013): Basic Science for JSS3. Lagos: Longman

### Content

The skin is an excretory organ that excretes water, urea and mineral salts which come out in the form of sweat. The skin is believed to be the largest organ in mammals, as it covers the entire body of mammals. During hot weather or exercise, a lot of blood flows to the skin, therefore, a lot of sweat is absorbed into the sweat glands. As the volume of sweat in the sweat gland increases, the sweat is evaporated. This leads to removal of heat from the body. This is a way by which the temperature of the body is regulated.

### FUNCTIONS OF THE SKIN

- 1      it excretes sweat
- 2      it is a sense organ of touch, temperature, pressure and pain
- 3      it regulates body temperature
- 4      it prevents the body from bacterial attack.

(a) State the functions of the skin

(b) Explain how the skin regulates body temperature

Conclusion: Teacher gives a concise note to students, marks same.

Assignment: Differentiate between excretion and defecation