Biology – Form 5

Genetics and continuity

WeeK	5th Form	4th Form
1 **5th-9th** **January**	Exam corrections Introduction to genetics and cell division Stages of Mitosis	Exam corrections Transport in plants continuation: Conservation of water in plants and translocation.
2 **12th-16th**	Stages of Meiosis State the differences between the two types of cell division and the importance of both. Lab: Ecology trip	Transport in animals. Components of blood Struture of the heart .
3 **19th-23rd**	Exercise on Mitosis and Meiosis Definition of different terms in genetics eg, recessive and dominant, heterozygous and homozygous. Genetic crosses to show inheritance (complete dominance)	Structure of blood vessels and immunity Exercise on Transport in animals Introduction to excretion Excretion in animals: Structure of the nephron
4 **26th-30th**	Lab: Genetics Genetic crosses (co dominance). Pedigree chart and sex-linked crosses. Exercise on test crosses	Excretion in plants Exercise on Excretion Introduction to movement Distinguish between movement in animals and in plants Functions of the skeleton
5 **2nd-6th February**	How genetic variation arises. Spcies formation Natural and artificial selection. Lab: Natural and artificial selection	Relationship between muscles and bones. Antagonistic muscles Joints; types and movement at joints. Lab: Drawing of bones
6 **9th-13th**	Genetic engineering; its advantages and disadvantages Exercise on Continuity	Exercise on Movement Introduction to irritability: Define stimulus and response Response of plants and invertebrates. Receptors and effectors in our bodies.
7 **16th-20th**	Growth- definition Discuss different ways that growth is recorded in plants and animals	Relationship between receptor, nervous system and effectors. Reflex actions and functions of parts of the brain

8 **23rd-27th**	Revision	Pysiological, social and economic effects of drugs Structure of the human eye and functions Sight defects of the eye
9 **2nd-6th March**	Revision	Relate the stucture of the human skin to temperature regulation. Skin care and importance of melanin and SPF
10 **9th-13th**	Exam	Lab: Onion epidermal cell Lab: PD: Plant growth Lab: Reaction distance
11 **16th-20th**	Exam	Lab: Transpiration Lab: Enzymes
12 **23rd-27th**	Exam	