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| Subject: **GCSE Biology Foundation Year 10 – AQA Foundation specification** |
| Group/ Year: **Year 10**  |

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| Autumn 1 – Module 1 CELLS | Autumn 2 – Module 2 ORGANISATION  | Spring 1 – Module 3 INFECTION & RESPONSE | Spring 2 – Module 4BIOENERGETICS & HOMEOSTASIS | Summer 1 – Module 5 HOMEOSTASIS | Summer 2 – Module 5 HOMEOSTASIS, INHERITANCE, VARIATION & EVOLUTION |
| Cell structure* Eukaryotes and prokaryotes
* Animal and plant cells
* Cell Specialisation
* Cell
* Differentiation
* Culturing microorganisms

Required practical 1: Investigate the effect of antiseptics or antibiotics on bacterial growthCell division* Chromosomes
* Mitosis and the cell cycle

Transport in cells* Diffusion
* Osmosis
* Required practical 2: Investigate the effect of salt or sugar solutions on plant tissue
* Active transport

AssessmentEnd of topic testPractical assessment | Principles of organisation* Organisational hierarchy

Animal tissues, organs and organ systems* The human digestive system

Required practical: Food Tests Required practical 3: Investigate the effect of a factor on the rate of an enzyme-controlledReaction* Blood
* Coronary heart disease: a non-communicable disease
* Health issues
* The effect of lifestyle on some non-communicable diseases
* Cancer

Plant tissues, organs and systems* Plant tissues and organs
* Plant Organ Systems

AssessmentEnd of Topic test | Communicable diseases* Communicable (infectious) diseases
* Viral diseases
* Bacterial diseases
* Fungal diseases
* Protist diseases
* Human defence systems
* Vaccination
* Antibiotics and painkillers
* Discovery and development of drugs

Plant disease* Detection and identification of plant diseases
* Plant defence responses

AssessmentREVISION forMOCK EXAMS | Photosynthesis* Photosynthetic reaction
* Rate of photosynthesis

Required practical 4: Investigate the effect of a factor on the rate of photosynthesis* Uses of glucose from photosynthesis

Respiration* Aerobic and anaerobic respiration
* Response to exercise
* Metabolism

New module HOMEOSTASIS Homeostasis* Principles of Homeostasis

The human nervous system* Structure and function

Required practical 5: Investigate the effect of a factor on human reaction time* The brain
* The eye
* Control of body temperature

AssessmentEnd of Topic test | Hormonal coordination in humans* Human endocrine system
* Control of blood glucose concentration
* Maintaining water and nitrogen balance in the body
* Hormones in human reproduction
* Contraception

Plant hormones* Control and coordination

Required practical 6: Investigate the effect of light on the growth of newly germinated shootsINHERITANCE, VARIATION & EVOLUTIONReproduction* Sexual and Asexual reproduction

Meiosis* Advantages & Disadvantages of Sexual and Asexual Reproduction

AssessmentEnd of Term test | Variation and evolution* DNA and the genome
* DNA structure
* Genetic inheritance
* Inherited disorders
* Sex determination
* Variation
* Evolution
* Genetic engineering
* Cloning

AssessmentEnd of Topic test |