AQA GCSE TRIPLE BIOLOGY PAPER 1 REVISION CHECK-LIST

Cell Biology

- Cell Measurement (Microscopy)
- Cell Size
- Biological Sample (T)
- Light Microscopes
- Microscopy (Required Practical)
- Limitations of Microscopes
- Animal Cells
- Plant Cells
- Measuring Cell Size
- Comparing Sizes
- Eukaryotes and Prokaryotes
- Specialised Cells

- Chromosomes and DNA
- Mitosis and The Cell Cycle
- Stem Cells
- Cell Differentiation
- Cloning in Plants
- Using Human Stem Cells
- Therapeutic Cloning

- Diffusion
- Mixing Particles
- Cell Models
- Osmosis
- Osmosis Required Practical
- Simple Measures
- Analysis Result
- Active Transport
- Comparing Transport Processes

Organisation

- Levels of Organisation
- Exchange Surfaces
- Adaptations of Exchange Surfaces
- Gaseous Exchange System
- Breathing

- Molecules of Life
- Structure of Molecules
- Food Tests (Required Practical)
- The Human Digestive System
- Enzymes
- Digestive Enzymes
- Enzymes (Required Practical)
- The Liver and Digestion

- Circulatory System
- The Heart
- Circulation
- Control of the Heart Rate
- Blood Vessels
- The Blood
- White Blood Cells
- Cardiovascular Disease
- Treating Cardiovascular Disease
- Heart Transplants
- Evaluating Treatments
- Pulses and Blood Flow

- Plant Organisation
- Plant Tissues
- Xylem and Phloem
- Transport in Plants
- Transpiration
- Factors Affecting Transpiration
- Investigating Transpiration
- Potometers
- Stomata and Guard Cells

- Types of Diseases
- Cancer and Carcinogens
- Risk Factors
- Smoking
- Alcohol
- Exercise, Nutrition and Obesity
- Principles of Sampling
- Analysing Patterns in Data
- Line Graphs
- Frequency of Disease
- Scatter Graphs

Infection and Response

- Pathogens
- Viral Diseases
- Bacterial Diseases
- Protist Diseases
- Fungal Diseases
- Preventing Diseases
- Interpreting Information
- Non-Specific Human Defences
- The Immune System
- Non-communicable Diseases

- Vaccinations
- Herd Immunity
- Antibiotics and Painkillers
- Antibiotic Resistance
- Bacterial Growth in Cultures (T)

- Bacterial Calculations (T)
- Aseptic Technique (Triple Required Practical)
- Effect of Antibiotics and Antiseptics (T)
- Discovery of New Drugs
- Developing and Testing Drugs

- Production of Monoclonal Antibodies (T)
- Uses of Monoclonal Antibodies (T)
- Issues with Monoclonal (T) Antibodies (T)

- Pathogens causing Plant Diseases (T)
- Mineral Ion Deficiencies (T)
- Nutrient Solutions (T)
- Symptoms of Plant Diseases (T)
- Plant Defences (T)
- Mechanical Plant Defences (T)

Bioenergetics

- Photosynthesis
- Factors Affecting Photosynthesis
- Water, Light, Carbon Dioxide, Temperature and Chlorophyll
- Interacting Factors
- Photosynthesis (required Practical)
- Interpreting Data
- Inverse Square Law
- Limiting Factors

- Cellular Respiration
- Aerobic and Anaerobic Respiration
- Anaerobic Respiration (yeast)
- Response to Exercise
- Oxygen Debt and Liver
- Metabolism

You will need to use the GCSE combined science (trilogy) website to revise each section: https://www.bbc.co.uk/bitesize/examspecs/zpgcbk7