Test Revision

Test 4 Respiratory, Circulatory & Digestive Systems

Multiple Choice – 10

Short Answer – 36

Extended Response - 14

Science inquiry skills

* hypothesis, variables, reliability

Respiratory System

* Components, structure & function
* Mechanisms of breathing
  + inspiration & expiration
  + diaphragm, intercostal muscles, atmospheric pressure
* Gas exchange
  + movement of oxygen & carbon dioxide
  + maintenance of concentration gradient
* Affecting lung function
  + Asthma, cystic fibrosis,

Circulatory System

* Heart
  + structure & function (chambers, valves etc)
  + blood flow through heart, oxygenated/deoxygenated
* Blood vessels
  + Arteries, veins & capillaries
  + structure & function
* Blood
  + components, structure & function
  + carbon dioxide & oxygen transport
* Blood Groups
  + ABO system
    - antigens & antibodies
* Haemostasis (blood clotting)
  + 3 events of blood clotting
  + substances/parts involved, function

Digestive System

* Components, structure & function
* Sources of nutrients
  + proteins – amino acids
  + carbohydrates – glucose
  + fats – fatty acids & glycerol
* Mechanical digestion
  + locations, processes involved, function
* Chemical digestion
  + locations, enzymes and substrates involved, function
* Peristalsis – movement through GI tract
* Absorption
  + location, structure and function of villus
* Affecting digestion & absorption
  + coeliac disease, constipation, diarrhoea