

My revision schedule for the Biology section of IGCSE combined science						
Paper 2 Multiple choice						
Paper 4 Extended						
Paper 6 Alternative to practical						
Characteristics of living organisms Cell structure and organisation	week 1	week beginning	6 Nov	At the start....	Revised this.....	I know this.....
MRS GREN				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Cell structure and organisation. Structure of plant and animal cells, function of cell parts, differences, magnification				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Movement in and out of cells	week 2	week beginning	13 Nov	At the start....	Revised this.....	I know this.....
Movement in and out of cells. Definition of diffusion and importance to cells				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Enzymes	week 3	week beginning	20 Nov	At the start....	Revised this.....	I know this.....
Enzymes. Definition of enzyme, effects of temperature and pH				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Nutrients	Week 4	week beginning	11 Dec	At the start....	Revised this.....	I know this.....
Elements in carbohydrates, proteins and fats				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
The structure of large molecules made from smaller basic units				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe tests for: starch, reducing sugars, protein, fats				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Sources of carbohydrates, proteins, vitamins C and D, fibre, calcium, iron, water and fats				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Deficiency diseases, vitamin C, vitamin D, iron, calcium				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Microorganisms and yoghurt production				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Plant nutrition	week 5	week beginning	18 Dec	At the start....	Revised this.....	I know this.....
Define <i>photosynthesis</i>				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
State the word and symbol equation				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Investigate the necessity for chlorophyll, light and carbon dioxide for photosynthesis				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe leaf structure				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Animal nutrition	week 6	week beginning	08 Jan	At the start....	Revised this.....	I know this.....
State and describe a balanced diet				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Identify the main regions of the alimentary canal and associated organs				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the functions of the regions of the alimentary canal				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Define <i>digestion</i>				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Identify and describe human teeth				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
State the significance of chemical digestion				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the effects of malnutrition				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Define absorption and where it occurs				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Topic review	week 7	week beginning	15-Jan	At the start....	Revised this.....	I know this.....
Attempt past paper questions and study the mark schemes				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Transport in plants	week 8	week beginning	22-Jan	At the start....	Revised this.....	I know this.....
State the functions of xylem and phloem.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Identify root hair cells, xylem tissues as seen in transverse sections				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Relate structure and functions of root hair cells to the uptake of minerals and water				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Define and describe transpiration. Identify factors that affect transpiration				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹

Transport in humans	Week 9	week beginning	29-Jan	At the start....	Revised this.....	I know this.....
Describe the circulatory system including the structure and function of the heart, blood vessels, blood cells				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Investigate, state and explain the effect of physical activity on pulse rate.				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Describe the double circulation				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Describe coronary heart disease				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Respiration and energy	week 10	week beginning	05-Feb	At the start....	Revised this.....	I know this.....
Define <i>respiration</i>				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
State the uses of energy in the body				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
State the word and balanced symbol equation for aerobic respiration.				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Gas exchange	week 11	week beginning	12-Feb	At the start....	Revised this.....	I know this.....
Identify and list the features of the gas exchange surfaces				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Explain the role of mucus and cilia in protecting the gas exchange system				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Describe the effects of tobacco smoke and its major toxic components on the gas exchange system				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
State the differences in composition between inspired and expired air				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Investigate, describe and explain the effects of physical activity on rate and depth of breathing.				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Topic review	week 12	week beginning	19-Feb	At the start....	Revised this.....	I know this.....
Attempt past paper questions and study the mark schemes				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Hormones	week 13	week beginning	26-Feb	At the start....	Revised this.....	I know this.....
Define a <i>hormone</i>				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
State the role of the hormone adrenaline				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Give examples of situations in which adrenaline secretion increases.				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Tropic responses	week 14	week beginning	05-Mar	At the start....	Revised this.....	I know this.....
Define and investigate <i>geotropism</i> and <i>phototropism</i>				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Explain the chemical control of plant growth by auxins including geotropism and phototropism				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Asexual and sexual reproduction	week 15	week beginning	12 Mar	At the start....	Revised this.....	I know this.....
Define asexual reproduction				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Define sexual reproduction				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Sexual reproduction in plants	week 16	week beginning	19 Mar	At the start....	Revised this.....	I know this.....
Identify, label and state the functions of the parts of an insect pollinated and a wind pollinated plant				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Define <i>pollination</i>				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Name the agents of pollination.				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺
Investigate the conditions for germination				☺ ☺ ☺	☺ ☺ ☺	☺ ☺ ☺

Sexual reproduction in humans	week 17	week beginning	26 Mar	At the start....	Revised this.....	I know this.....
Identify the male and female reproductive system and state the functions of each part				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the menstrual cycle in terms of changes in the uterus and ovaries.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Compare male and female gametes in terms of size, numbers and mobility.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe fertilisation in terms of the joining of the nuclei of male gamete (sperm) and the female gamete (egg).				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Outline early development of the zygote				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the functions of the amniotic sac, amniotic fluid, placenta and umbilical cord.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the advantages and disadvantages of breast-feeding compared with bottle-feeding using formula milk.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the methods of transmission of human immunodeficiency virus (HIV), and the ways in which HIV / AIDS can be prevented from spreading.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Outline how HIV affects the immune system in a person with HIV / AIDS.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Energy flow in ecosystems	week 18	week beginning	02 Apr	At the start....	Revised this.....	I know this.....
State that the Sun is the principal source of energy				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Define food chain, food web, producer, consumer, decomposer, ecosystem, trophic level				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Explain why food chains usually have fewer than five trophic levels.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Discuss the effects of the combustion and deforestation on the oxygen and carbon dioxide concentrations in the atmosphere.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Human influences on the ecosystem	week 19	week beginning	09 Apr	At the start....	Revised this.....	I know this.....
List the undesirable effects of deforestation				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the undesirable effects of water and air pollution				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the need for conservation				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Describe the undesirable effects of overuse of fertilisers				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Discuss the causes and effects on the environment of acid rain, and the measures that might be taken to reduce its incidence				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Explain how increases in greenhouse gases are thought to cause global warming.				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Topic review	Week 20	week beginning	23 Apr	At the start....	Revised this.....	I know this.....
Attempt past paper questions and study the mark schemes				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Topic review	week 21	week beginning	30 April	At the start....	Revised this.....	I know this.....
Attempt past paper questions and study the mark schemes				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹
Topic review	week 22	week beginning	07-May	At the start....	Revised this.....	I know this.....
Attempt past paper questions and study the mark schemes				☺ ☹ ☹	☺ ☹ ☹	☺ ☹ ☹

1. STICK to the programme! The later you start, the more you will have to do – every week!
2. Make sure you organise a thorough revision programme.
 - Make your OWN Revision notes – highlight key points
 - Test your knowledge and understanding
 - ASK if you don't understand ANYTHING!
 - Find and complete relevant exam past questions
 - Analyse the mark scheme – why didn't you get full marks??
 - Repeat the questions until you do achieve full marks!
3. Have confidence in you own ability
4. Go to bed early the night before your exam
5. Eat breakfast.