|  |  |  |
| --- | --- | --- |
| WEEK/Dates | TOPIC | HOMEWORK |
| Week beginning : 2/9/19Week beginning: 9/9/19 | Key concepts in biology* Cells and specialised cells
* Microscopy
* Enzymes
* Enzymes in breakdown and synthesis
* Energy in food
* Diffusion, osmosis and active transport
* Investigating osmosis
 | * Cells and specialised cells worksheet
* Microscopy worksheet
* Enzyme worksheet
 |
| Week beginning: 16/9/19Week beginning: 23/9/19 | Cells and controls * Mitosis
* Cell division and growth
* Stem cells
* The brain and the spinal cord
* The nervous system
* Synapses and nerves.
* The Eye
 | * Mitosis worksheet
* Growth and cell development worksheet
* The eye key words and worksheet
 |
| Week beginning: 7/10/19Week beginning: 14/10/19 | Genetics * Sexual reproduction and meiosis
* DNA
* Protein synthesis
* Genetic diagrams
* Sex linked genetic disorders
* Inheritance and blood groups
* Variation
* The human genome projects
 | * Genes. Chromosomes and DNA
* Protein synthesis worksheet
* Genetic Disorders assessment
* Inheritance and blood groups worksheet
 |
| Week beginning28/10/19Week beginning: 4/11/19Week beginning: 11/11/19 | Natural selection and genetic modification. * Natural selection and evidence for evolution.
* Darwin and Wallace.
* Fossil evidence for human evolution
* Classification
* Selecting breeding
* Tissue Culture
* Genetic Engineering
* GMOs and Human population Growth
 | * Natural selection worksheet
* Evidence for evolution.
* Genetic engineering news report project.
 |
| Week beginning: 18/11/19Week beginning: 25/11/19Week beginning 2/12/19 | Health, Disease and the development of medicines. * Health and disease
* Viruses and STIs
* Plat disease
* Fighting disease
* Memory lymphocytes and immunisation
* Monoclonal antibodies
* Antibiotics and other medicine.
* Investigating antibiotics and antiseptics
* Non-communicable disease
* Measures of obesity
* Treatment for cardiovascular disease
 | * Health and disease worksheet.
* Antibiotics and medicines
* Plant disease worksheet
* Communicable disease.
* Obesity causes.
* Cardiovascular disease

Bacterial reproduction.  |
| Week beginning **9/12/19-16/12/19 PASTPAPERS EXAM PRACTISE PAPER 1**  |
| Week beginning6/1/2020 | Plant structures and their functions * Photosynthesis
* Warm and exam questions
* Transport in plants
* Adaptations of leaves and plants
* Plant hormones
* Commercial use of plant hormones
 | Worksheet for photosynthesis and its limiting factors. Transpirations and stomata worksheets  Warm up and exam questions.  |
| Week beginning : 13/1/2020 | Plant hormones Adaptations of leaves and plants Commercial use of plant hormones  | * Plant hormones worksheet
* Commercial use of plant hormones.
 |
| Week beginning: 20/1/2020 | Animal coordination.* Hormones
* Comparing neurones and hormones
* Adrenaline and thyroxine
 | Worksheet to compare neurones and hormones.Adrenaline and thyroxine activity  |
| Week beginning: 27/1/2020 | The menstrual cycle Controlling fertility Homeostasis  | Describe the menstrual cycle and controlling fertility  Homeostasis worksheet |
| Week beginning:3/2/2020 | Blood glucose regulation Diabetes Thermoregulation The kidneys  | * Blood glucose worksheet
* Diabetes worksheet
* The kidneys
 |
| Week beginning 10/2/2020 | Exam questions  | * Past pater and all topic practice question
 |
| Week beginning 24/2/2020 | Exchange and transport in animals.Exchange surfaces and the alveoli Rate of diffusion  | * Gas exchange and animal in worksheets
* Diffusion and substances worksheet
 |
| Week beginning 2/3/2020 | Respiration Investigating respiration Warm up and exam style questions  | * Respiration worksheet
* Exam style of questions
 |
| Week beginning 9/3/2020 | Circulatory system Blood Blood vessels The HeartWarm up and exam questions.  | * Questions on blood, blood vessels and the heart.
 |
| Week beginning 16/3/2020 | Ecosystems and material cycles* Ecosystems and interactions between organism
* Investigating ecosystems
 | * Worksheet on ecosystem and interactions
* Investigating ecosystem activity
 |
| Week beginning 23/3/2020 | * Warm up exam style questions.
* Human impacts on biodiversity
* Conservation and biodiversity
 | * Biodiversity and human impacts worksheet
* Worksheet on biodiversity and conservation.
 |
| Week beginning 30/3/2020 | Food security The carbon cycle The water cycle The nitrogen cycle  | * Food testing and security worksheet
* The 3 cycle worksheet
 |
| Week beginning 20/4/2020 | Warm up exam questions Indicator species Decomposition  | * Indicator species worksheet
* Decomposition worksheet
 |
| Week beginning 27/4/2020 | Warm up exam questions  | Summer revision worksheets Exam style questions  |
| Week beginning 4/5/2020 |  |  |
| Week beginning 11/5/2020 |  |  |
| Week beginning 18/5/2020 |  |  |
| Week beginning 1/6/2020 |  |  |
| Week beginning 8/6/2020 |  |  |