

**Westbourne House School**

**Revision – Summer Term 2021**

**Y8 BIOLOGY REVISION CHECKLIST**

**The Exam(s) will consist of:**

* One paper:
  + 8CE – duration 40 minutes
  + 8S – duration 90 minutes overall (30 minutes per science section)

**Equipment you will need for the exam:**

* Fountain pen and spare cartridges
* Ruler (15cm and 30cm)
* Pencil
* Eraser and pencil sharpener
* Calculator

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| **TOPIC / PAPER** | **WHAT TO REVISE** | **DONE?** |
| Plant Biology | * Photosynthesis equation * Leaf starch test * Oxygen production rate experiments/limiting factors * Leaf/root structure and adaptations * Minerals * Fertilisation in flowering plants |  |
| Nutrition & Digestive System | * Food groups and uses e.g.: proteins (Y6) * Malnutrition e.g.: scurvy (Y6) * Function/adaptation of digestive organs eg: small intestine * Role of enzymes e.g.: amylase * Digestion of starch/absorption of glucose |  |
| Respiratory System | * Lung structure * Inhaling/exhaling * Respiration equation * Gas exchange in alveoli * Effects of smoking |  |
| Circulatory System | * Pulse rates * Effects/advantages of exercise * Basic heart structure/blood vessel roles |  |
| Musculo-Skeletal System | * Roles of the skeleton * Joint types * Antagonistic muscles |  |
| Reproductive System | * Male/female reproductive organs, gametes * Changes at puberty * Fertilisation * Embryo development - basic stages * Role of amniotic fluid, placenta, umbilical cord |  |
| Ecology | * Ecology definitions e.g.: producer * Interpreting food chains/webs * Vertebrate/invertebrate groups, keys * Adaptations (Y5) * Quadrat Sampling |  |
| Cells | * Animals vs plant cell structure/function * Specialised cells – examples/jobs e.g.: red blood cells * Slide preparation * Parts of a microscope |  |
| Genetics/  Diseases | * Variation – continuous/discontinuous * Selective breeding * Examples of diseases caused by pathogens (bacterial, viral, protists, fungi) * Ways of spreading disease/importance of hygiene |  |
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| **NOTES/TIPS:** | | |
| * You are preparing for a CE/Scholarship paper * You need to review the whole syllabus as covered in your Biology exercise books from Y6-8 and ISEB Revision Guide * For any further information or guidance about revision or the actual exam, please contact Head of Science – Mrs Victoria Bagshaw ( [vbagshaw@westbournehouse.org](mailto:vbagshaw@westbournehouse.org) ) | | |