**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
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| 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
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| Respiratory System | * Lung structure
* Inhaling/exhaling
* Respiration equation
* Gas exchange in alveoli
* Effects of smoking
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| Circulatory System | * Pulse rates
* Effects/advantages of exercise
* Basic heart structure/blood vessel roles
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| Musculo-Skeletal System | * Roles of the skeleton
* Joint types
* Antagonistic muscles
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| Reproductive System | * Male/female reproductive organs, gametes
* Changes at puberty
* Fertilisation
* Embryo development - basic stages
* Role of amniotic fluid, placenta, umbilical cord
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| Ecology | * Ecology definitions e.g.: producer
* Interpreting food chains/webs
* Vertebrate/invertebrate groups, keys
* Adaptations (Y5)
* Quadrat Sampling
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| Cells | * Animals vs plant cell structure/function
* Specialised cells – examples/jobs e.g.: red blood cells
* Slide preparation
* Parts of a microscope
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| 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 )
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