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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| **Y11**  **Curriculum**  **Map** | * Human reproduction and Hormones and the menstrual cycle * The artificial control of fertility (Contraception) * Infertility treatments * Removing waste products * Kidneys and urine formation * Dialysis – an artificial kidney * Kidney transplants * Plant hormones and responses * Using plant hormones * RP Plant Responses – the effect of light/gravity on the growth of germinated seedlings | * Asexual and sexual reproduction * DNA structure and the genome, * DNA and protein synthesis , Mutations * Meiosis * Genetic inheritance * Sex determination * Inherited disorders * Variation * Evolution by natural selection and Theories of evolution * Evolution and speciation * The understanding of genetics, work of Mendel * Evidence for evolution & * Fossils and extinction * Selective breeding * Genetic engineering and concerns | * Cloning * Antibiotic resistant bacteria * Classification & * New systems of classification * Communities , Abiotic and Biotic factors and Competition * RP Field Investigations – measure population size of a common species in a habitat * Adaptation in animals & * Adaptation in plants | * Food chains , trophic levels, Pyramid of Biomass, Transfer of Biomass * Material recycling and The carbon cycle * Rates of decomposition * RP Decay – the effect of temperature on the rate of decay of fresh milk using pH change * Impact of environmental change, waste management, global warming * Deforestation and Land use * The impact of change * Maintaining biodiversity * Factors affecting food security & * Making food production efficient & * Sustainable food production * Role of Biotechnology * Mock exam feedback | * Revision * EXAMS | * REVISION * EXAMS |
| **Assessments** |  |  |  |  |  |  |
| **Books to Read** | [**Gulp**](https://www.shortform.com/best-books/book/gulp-book-reviews-mary-roach)  [Adventures on the Alimentary Canal](https://www.shortform.com/best-books/book/gulp-book-reviews-mary-roach)  Mary Roach |  | [A Crack in Creation](https://www.shortform.com/best-books/book/a-crack-in-creation-book-reviews-jennifer-a-doudna-samuel-h-sternberg) [Gene Editing and the Unthinkable Power to Control Evolution](https://www.shortform.com/best-books/book/a-crack-in-creation-book-reviews-jennifer-a-doudna-samuel-h-sternberg)  Jennifer A. Doudna, Samuel H. Sternberg |  |  |  |