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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  |  |  |  |