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| Lesson No | Spec Ref | Lesson Title  |
|  |  | **Autumn 1** |
| 1 | 4.5.3.4 | Human reproduction and Hormones and the menstrual cycle |
| 2 | 4.5.3.5 | The artificial control of fertility (Contraception) |
| 3 | 4.5.3.6 | Infertility treatments  |
| 4 | 4.5.3.3 | Removing waste products |
| 5 | 4.5.3.3 | Kidneys and urine formation |
| 6 | 4.5.3.3 | Dialysis – an artificial kidney |
| 7 | 4.5.3.3 | Kidney transplants |
| 8 | 4.5.4.1 | Plant hormones and responses  |
| 9 | 4.5.4.2 | Using plant hormones  |
| 10 | 4.5.4.1 | **RP Plant Responses – the effect of light/gravity on the growth of germinated seedlings** |
| 11 |  | **Plant responses-RP exam qs** |
| 12 |  | **Catch up lesson** |
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|  |  | **Autumn 2** |
| 15 | 4.6.1.14.6.1.3 | Asexual and sexual reproductionAdvantages and disadvantages |
| 16 | 4.6.1.4 | DNA structure and the genome,  |
| 17 | 4.6.1.5 | DNA and protein synthesis , Mutations |
| 18 | 4.6.1.2 | Meiosis |
| 19 | 4.6.1.6 | Genetic inheritance |
| 20 | 4.6.1.8 | Sex determination |
| 21 | 4.6.1.7 | Inherited disorders  |
| 22 | 4.6.2.1 | Variation  |
| 23 | 4.6.2.24.6.3.1 | Evolution by natural selection and Theories of evolution |
| 24 | 4.6.3.2 | Evolution and speciation |
| 25 | 4.6.3.3 | The understanding of genetics, work of Mendel |
| 26 | 4.6.3.44.6.3.54.6.3.6 | Evidence for evolution & Fossils and extinction  |
| 27 | 4.6.2.3 | Selective breeding  |
| 28 | 4.6.2.4 | Genetic engineering and concerns |
| 29 |  | **Mock exams** |
| 30 |  | **Mock exams** |
| 31 |  | **Mock exams** |
|  |  | **Spring 1** |
| 32 | 4.6.2.5 | Cloning |
| 33 | 4.6.3.7 | Antibiotic resistant bacteria |
| 34 | 4.6.4.1 | Classification & New systems of classification |
| 35 | 4.7.1.14.7.1.24.7.1.3 | Communities , Abiotic and Biotic factors and Competition |
| 36 |  | **RP Field Investigations – measure population size of a common species in a habitat** |
| 37 |  | Mock exam feedback and data entry |
| 38 | 4.7.1.4 | Adaptation in animals & Adaptation in plants |
|  |  | **Spring 2** |
| 39 | 4.7.2.14.7.4.14.7.4.24.7.4.3 | Food chains , trophic levels, Pyramid of Biomass, Transfer of Biomass |
| 40 | 4.7.2.2 | Material recycling and The carbon cycle |
| 41 | 4.7.2.3 | Rates of decomposition |
| 42 |  | **RP Decay – the effect of temperature on the rate of decay of fresh milk using pH change** |
| 43 | 4.7.2.44.7.3.24.7.3.5 | Impact of environmental change, waste management, global warming |
| 44 | 4.7.3.34.7.3.4 | Deforestation and Land use |
| 45 | 4.7.3.5 | The impact of change  |
| 46 | 4.7.3.14.7.3.6 | Maintaining biodiversity  |
| 47 | 4.7.5.14.7.5.24.7.5.34.7.5.4 | Factors affecting food security & Making food production efficient & Sustainable food production |
| 48 | 4.7.5.4 | Role of Biotechnology |
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| 50 |  | REVISION AND EXAMS  |
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