

Year 9 Science 2019/20

| Week | Date | Unit | Topics |
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| 1 | 2 nd Sept – 25 th October | SKILLS | Lab safety and hazards, SI units, measurements, accuracy, equipment, calculating averages, random and systematic errors, types of data, graphs, variables, writing and evaluating methods, experimental analysis, equations for science, scientific models and theories |
| | 28-Oct | | |
| 1 | 4- 8Nov | Building blocks 1.1 | Matter and particles, density, Density REQUIRED PRACTICAL |
| 2 | 11-15 Nov | Building blocks 1.1 | Density REQUIRED PRACTICAL , Gas pressure and temperature |
| 3 | 18-22 Nov | Building blocks 1.1 | Changes of state, internal energy, specific heat capacity |
| 4 | 25-29 Nov | Building blocks 1.1 | Specific heat capacity REQUIRED PRACTICAL , |
| 5 | 2-6 Dec | Building blocks 1.1 | Specific latent heat, pure substances |
| 6 | 9-13Dec | | Consolidation |
| 7 | 16-20 Dec | | Consolidation |
| | 23-Dec | | |
| | 30-Dec | | |
| 1 | 6-10 Jan | Building blocks 1.2 | Models of atoms, subatomic particles |
| 2 | 13- 17 Jan | Building blocks 1.2 | Size of atoms, isotopes, electronic configuration. |
| 3 | 20- 25 Jan | Building blocks 1.3 | Microscopy, animal and plant cells |
| 4 | 28-1 Feb | Building blocks 1.3 | Cells REQUIRED PRACTICAL , Eukaryotic and prokaryotic cells, Diffusion |
| 5 | 4- 8 Feb | Building blocks 1.3 | Osmosis, Osmosis REQUIRED PRACTICAL |
| 6 | 11-15 Feb | Building blocks 1.3 | Consolidation |
| | 17-Feb | | |
| 1 | 24- 28 Feb | Building blocks 1.3 | Active transport, cells division, differentiation |
| 2 | 2- 6 Mar | Building blocks 1.3 | Stem cells, meiosis |
| 3 | 9- 13 Mar | Building blocks 1.4 | Nature of waves, properties of waves. Waves REQUIRED PRACTICAL |
| 4 | 16- 20 Mar | Building blocks 1.4 | Waves equation, electromagnetic waves |

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| 5 | 23- 27 Mar | Building blocks 1.4 | EM waves REQUIRED PRACTICAL, Light, infrared, microwaves and radio waves, communications |
| 6 | 30- 3 Apr | Building blocks 1.4 | UV, X rays and gamma rays |
| | 06-Apr | | |
| | 13-Apr | | |
| 1 | 20- 24 April | Transport over larger distances 2.1 | Respiration |
| 2 | 27-1 May | Transport over larger distances 2.1 | Exchange surfaces, blood composition |
| 3 | 4- 8 May | Transport over larger distances 2.1 | Blood vessels, the heart, circulation |
| 4 | 11-15 May | Transport over larger distances 2.1 | Food groups REQUIRED PRACTICAL |
| 5 | 18- 22 May | Transport over larger distances 2.1 | Consolidation |
| | 25-May | | |
| 1 | 1- 5 June | Transport over larger distances 2.1 | Digestive system, nervous system |
| 2 | 8-12 June | Transport over larger distances 2.1 | Reflex arc |
| 3 | 15-19 June | Transport over larger distances 2.2 | Reflexes REQUIRED PRACTICAL, role of individual hormones, meristem tissue |
| 4 | 22-26 Jun | Transport over larger distances 2.2 | Plant structures, transpiration |
| 5 | 29- 3 Jul | Transport over larger distances 2.2 | Factors affecting transpiration, Chlorophyll and plant pigments REQUIRED PRACTICAL |
| 6 | 6- 10 Jul | Transport over larger distances 2.2 | Consolidation |
| 7 | 13-17 Jul | Transport over larger distances 2.2 | Consolidation |