

St Thomas More RC College Curriculum Topic Overview commencing September 2020

Year 10a Science Trilogy

Week	Week beginning	Autumn		
		Biology	Chemistry	Physics
1				
2				
3				
4	21/9/20	Mitosis and cell cycle	Properties and Models of Ionic Compounds	Required practical: Specific heat capacity
5	28/9/20	Stem Cells	Covalent Bonding	Understanding power and Dissipation of energy
6	5/10/20	Diffusion	Properties of Small Molecules	Energy efficiency
7	12/10/20	Osmosis	Polymers	Using energy resources and Global energy supplies
8	19/10/20	Osmosis Required Practical	Giant Covalent Structures	Electric current & potential difference
9	2/11/20	Active Transport	Structure and Bonding of Carbon - Diamond	Required practical: Investigate the factors affecting the resistance of electrical circuits (2 lessons)
10	9/11/20	Cells and Movement Summary	Structure and Bonding of Carbon - Graphite	Circuit components
11	16/11/20	Organisation	Structure and Bonding of Carbon – Graphene and Fullerenes	Required practical: use circuits to investigate I-V characteristics of components (2 lessons)
12	23/11/20	Digestive system	Metallic Bonding	Required practical: use circuits to investigate I-V characteristics of components
13	30/11/20	Food Tests Required Practical	Properties of Metals and Alloys including Conduction	Control circuits and Series and parallel circuits
14	7/12/20	Enzymes	The Three States of Matter	Electricity in the home
15	14/12/20	Enzyme Required Practical	Limitations of the Model of Particle Theory	Calculating power and Power and energy transfers