

Year 9 – Science Autumn Term 1

Physics Unit 5: 9I Forces and Motion & 9J Force Fields and Electromagnets			
Physics Unit 5 (Old Curriculum)	9I Forces and Motion	Week 1	How do forces affect objects and the way they move?
			Which energy resources can be used to move things?
			How do we calculate speed?
		Week 2	How do we draw and interpret distance time graphs?
			How can you increase the size of a force?
			What other simple machines make it easier to move things?
	9J Force Fields and Electromagnets	Week 3	How can we calculate work done?
			What kinds of force field are there?
		What causes static electricity?	
	Week 4	How can current electricity be controlled?	
		How can we calculate the resistance of a component?	
		How can electricity produce magnetism?	
5	How can we make a simple motor?		
Chemistry Unit 5: 9E Making Materials, 9F Reactivity			
Chemistry Unit 5	9E Making Materials	Week 5	What are ceramics and what are their properties?
			What are polymers and what are their properties? What are composites and what are their properties?
	Week 6		What problems can we come across with different materials? How can we recycle materials?
		What is combustion?	
		How can energy increase or decrease in a chemical reaction?	
	9F Reactivity	Week 7	How reactive are different metals?
			How does reactivity affect the reactions of different metals?
			How can we extract metals?
	Week 8	How can we extract metals using electrolysis? (3 lessons)	