11.1 - Navigator Curriculum - Science / 8 Lessons weekly

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Year	2025 – 2026 Autumn 1	2025 – 2026 Autumn 2	2025 – 2026 Spring 1	2025 – 2026 Spring 2	2025 – 2026 Summer 1	2025 – 2026 Summer 2
	Topic: Physics 2 P12 EM waves, P13 Electromagnetism, C8 Rates and equilibrium.	Topic: Chemistry 2 C9 Crude oil and fuels, C10 Chemical analysis, C11 The Earths atmosphere.	Topic: Chemistry 2 C12 The Earths resources, B10 The human nervous system.	Topic: Biology 2 B11 Hormonal coordination, B13 Variation and evolution.	Topic: Revision Revision directed by pupil needs/ requirements and outcome of mock exams. EXAM'S	Topic: Revision and Exams. Suggested Key Questions: Key Skills and
	Suggested Key Questions: How do forces affect thinking, braking and stopping distances? How is energy generated?	Suggested Key Questions: How can we predict products of chemical reactions? How can we control the rate of a reaction? What is equilibria?	Suggested Key Questions: How can processes and product production be improved? How are humans impacting on the environment?	Suggested Key Questions: What are ecosystems? What do we mean by inheritance? What is evolution?	Suggested Key Questions: What do I need to revisit/ revise? How can I prepare myself for my exams? What are exam techniques?	Knowledge:
	Key Skills and Knowledge: P12 Students will be able to describe the electromagnetic spectrum in terms of different regions related to wavelength. The speed of electromagnetic waves in a vacuum has been described as constant allowing the use of the wave equation to link wavelength and frequency which as then been tied to the energy carried by	Key Skills and Knowledge: C9 Students will learn about hydrocarbons and been introduced to the alkanes. They should now be able to identify alkanes from their formulae, and be able to name and draw the displayed formula of the first four alkanes. Students have also learnt about some of the reactions of hydrocarbons, including combustion (both complete and incomplete) and	Key Skills and Knowledge: C12 Students will learn about the difference between finite and renewable resources. It is important that students understand that renewable resources are not an infinite supply, but are replaceable at a rate similar to the rate they are used up, whereas finite resources are used up faster than they can be replenished. Students understanding of finite and renewable	Key Skills and Knowledge: B11 Students have studied the principles of hormonal control and the endocrine system. They should be able to identify the main parts of the endocrine system and recall the hormones they produce. Students should recall how blood-glucose concentration is controlled, including the role of insulin. Highertier students should also be able to explain the role of glucagon, and	Key Skills and Knowledge:	

the wave.

Each of the regions of the electromagnetic spectrum has been described along with associated uses and students have investigated the relationship between surface colour, temperature, and the rate of emission of infrared radiation. The use of radio waves in communications for television and mobile phones has been described along with outlining transmissions of signals through optical fibres. Higher tier students have also described the process of modulation of carrier waves to give a more complex picture of how information can be transmitted using waves.

All students have described the application of ultra violet waves in phosphorescence and the damage these waves can cause to skin and eves before describing the uses of X-rays and gamma rays in medical applications. The process of ionisation has been outlined and the cause of tissue damage and as a useful technique in killing bacteria or cancerous cells. Further details of the use of X-

cracking. All students should be able to write balanced symbol equations for the complete combustion of hydrocarbons and to describe the conditions of cracking. All students should be able to describe the test for alkenes (a product of cracking) but students studying AQA GCSE Combined science: Trilogy do not need to know the names of the alkenes produced.

Students will also learn about crude oil as a source of hydrocarbons and the fractional distillation of crude oil. They should be able to describe how the size of the hydrocarbon molecule affects its properties, including viscosity, boiling point, and flammability.

C10

Students will learn about various techniques for analyzing substances. All students should now understand the difference between a pure substance, a mixture, and a formulation, and what is meant by purity. Students should also have built upon their understanding of chromatography experiments from Chapter C1 and be able to analyse a chromatogram, both

resources should be applied to the need to reuse and recycle, and they should be able to describe and evaluate ways of reducing the use of finite resources, and carry out life cycle assessments on products.

Students will look at specific resources that we use, including water and metals (in particular copper). Students should be able to describe the different wavs that water is treated, both to create potable water and to remove waste products so it is safe to release into the environment. Students have already met metal-ore extraction and electrolysis, and higher-tier students should have applied that knowledge to the extraction of copper, as well as understanding alternative biological methods used to extract copper.

B10

Students have studied the principles of homeostasis, and should be able to give some examples and outline the control system involved. They should link this work with studies on enzyme action in B3.2 The human digestive system and B3.4 Catalysts and enzymes. Students

clearly distinguish between glucose, glycogen, and glucagon. All students should be aware of the causes and treatments of both type 1 and type 2 diabetes. They should link this with work in B2.3 Stem cells and with the effect of lifestyle on type 2 diabetes in B7.4 Diet, exercise. and disease.

Higher-tier students should understand the process of negative feedback, particularly as applied to the hormones adrenaline and thyroxine. All students have studied hormones in human reproduction. They should recall the action of hormones in bringing about puberty. They should be aware of the role of oestrogen in the menstrual cycle in females, and of testosterone in males.

Higher-tier students should have a more detailed understanding of how hormones interact to control the menstrual cycle. Students should understand how hormones are used in the control of fertility as applied to contraception, and for higher-tier students, to infertility treatments.

B13

rays have been described including contrast media and detection devices such as the CCD and the concept of radiation dose. Higher tier students have compared the intensity of imaging and therapeutic X-rays.

P13

Students begin this chapter by reinforcing their knowledge of magnetism by looking at the magnetic fields around permanent magnets and the concept of induced magnetism in some materials. The students have been reminded of the techniques used to plot a magnetic field and the shape of the Earth's field.

Students move on to examine the magnetic field produced by a current and investigate the factors that affect the direction and strength of this field. They compared the field shape of a solenoid to that produced by a simple bar magnet.

All higher-tier students described how a current carrying wire placed in a magnetic field would experience the motor effect before going on to explain how this effect could be used to create an electric motor. The

qualitatively and quantitatively using Rf values. Students should also be able to describe the different experimental tests for gases, including both the procedure and positive result.

C11

Students will learn about the Farth's atmosphere. Students only need to be able to describe the volcanic activity theory of the origin of the atmosphere, but they should be able to interpret evidence concerning other theories, and be able to evaluate them. To describe the history of the atmosphere students will need to have a sense of the timescales involved.

Along with an understanding of the origins of the atmosphere, students should also understand how it has evolved over time. This includes both how the general composition of the atmosphere has changed and how the atmosphere is currently being affect by human activity. Students should be able to describe the human activities that are thought to cause global warming, and be able to explain some of

the effects this has on

should recall details of the human nervous system and its structure and function. They should link this with work on nerve cells in B1.4 Specialisation in animal cells. They should be able to describe a reflex arc, with detail of synaptic transmission. Students should appreciate that receptors detect a change in a stimulus and not the stimulus itself. They should be able to describe an electrical impulse accurately.

All students should be able to outline asexual and sexual reproduction, and should be aware of the importance of meiosis, fertilisation, and variation in sexual reproduction. They should link this with work on chromosomes and mitosis and the cell cycle in B2 Cell division.

All students have studied DNA and its role in inheritance. They should be aware of the genetic code and genomes, including how the data produced by genome research can be used. AQA GCSE Biology students should be able to outline DNA structure, with highertier students recalling the detailed structure of DNA and also studying protein synthesis, including how the genetic code is used to assemble amino acids into proteins.

All students have studied inheritance, and should be able to use genetic terms and set out a genetic cross with the use of a Punnett square. They should be able to predict ratios of different phenotypes, and apply this to sex determination and family trees. Students should be able to

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	equilibrium. Students should apply their knowledge on endothermic and exothermic reactions to equilibrium reactions to be able to predict the effect of temperature changes on the reversible reactions and the position of the equilibrium. Higher-tier students should also be able to use Le Châtelier's principle to explain the effect of temperature and pressure on the position of equilibrium.					
Links to Gatsby Benchmarks:	Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Benchmark 4 – Linking Curriculum to learning Students to consider what skills are needed to be a sound engineer/ teacher/ astronomer lead onto looking at what skills are needed for different roles they are interested in and what qualifications.	Benchmark 3 – Addressing the needs of the student and * - Personal Guidance Benchmark 4 – Linking Curriculum to learning Students to consider what skills are needed to be a sound engineer/ teacher/ astronomer lead onto looking at what skills are needed for different roles they are interested in and what qualifications	Benchmark 2, — Learning from the Career and Labor Market information. Benchmark 3 — Addressing the needs of the student and * - Personal Guidance Benchmark 5- Encounters with employers and employees Students to consider what skills are needed to access the opportunities they are interested in. Research.	Benchmark 2, — Learning from the Career and Labor Market information. Benchmark 3 — Addressing the needs of the student and * - Personal Guidance Students to consider what qualifications are needed to access the opportunities they are interested in. Research.	Benchmark 2, — Learning from the Career and Labor Market information. Benchmark 3 — Addressing the needs of the student and * - Personal Guidance Students begin consider how technology may shape the job market.	Benchmark 2, — Learning from the Career and Labor Market information. Benchmark 3 — Addressing the needs of the student and * - Personal Guidance Benchmark 4 — Linking Curriculum to learning Benchmark 8 — Personal Guidance Students to consider what skills are needed to access the opportunities they are interested in. Going into work places/remote visits. Research.