KEVICC KS3 Curriculum:	Subject: Science	Key terms and vocabulary.
Year: 7 Term: Across the year	Topic: Biology	Which words will be explicitly taught & how frequently will
What is the essential knowledge from this unit? What do students need to remember and understand? Content Autumn term - Cells		understanding be checked? How will assimilation of new vocab be checked?
 Autumn term - Cells Students will discover what plants and animals are made of and meet some tiny organisms that can only be seen under a microscope. Students will observe cells under a microscope and develop their knowledge of different types of cells including unicellular organisms Students will learn about diffusion and the movement of substances in and out of cells Key practical – learning to use a microscope Spring Term - Body systems Students will explore how different structures work together to keep an organism alive Students will be come familiar with different tissues, organs and organ systems Students will be learn about gas exchange and breathing Students will discover how the skeleton, joints and muscles help with movement Key practical – demo of how we breath using a bell jar Students will discover how new plants and animals are created through the process of reproduction Students will explore adolescence and the reproductive systems of males and females Students will learn about fertilisation in both animals and plants Students will learn about the development of a fetus and the menstrual cycle in humans Students will discover how seeds are dispersed relating to plants 		Organisms cells microscope observation nucleus cell membrane cytoplasm mitochondria respiration cell wall vacuole chloroplasts specialist cells red blood cells sperm cell leaf cells root hair cells diffusion concentration unicellular amoeba euglena flagellum alveolus antagonistic bone bone marrow contract cartilage diaphragm exhale inhale joint ligament lung multicellular organ organ system
 What prior learning supports understanding of this content? From KS2 The life cycles of plants and animals include growth, development and reproduction Plants are made up of different parts – including roots, stem, leaves and flowers Seeds need water, warmth and oxygen to start growing Plants need air, light, water, nutrients from the soil and room to grow Flowers play an important part in the life cycle of a plants Some animals have skeletor and muscles for support, protection and movement Living things produce offspring, which grow into adults 	 How does this content link to future learning? GSCE Biology Students develop knowledge on different types of cells including their growth and differentiation Students build of their knowledge of photosynthesis and explore respiration Students build on their knowledge of body systems and learn about digestion in more detail including the importance of enzymes in the digestive sytem 	system ribcage skeleton tendon tissue trachea volume adolescence anther carpel cervix cilia contraception ejaculation embryo fertilisation fetus filament gestation germination implant menstrual cycle ovary oviduct ovulation ovule placenta pollen pollination puberty semen sperm duct stamen stigma style testes umbilical cord uterus urethra vagina Vocabulary will be modelled by teachers and tested in periodic short tests and scientific

Reading: Where in the unit are students supported to read complex academic text? Reading activities from textbook and comprehension activities in the integrated Skills Tests that run throughout the year. Scientific literacy also includes reading graphs and tables in order to extract meaning from data.	Writing: Independent writing tasks and how they are structured Writing skills include concise and accurate communication that includes appropriate keywords. Scientific literacy includes the ability to draw graphs and tables to effectively communicate data. Conclusions to practical work is the most important form of scientific communication.	literacy is marked during feedback. Scientific communication is directly reported to parents as part of the college report
 Key assessments: Biology questions in Autumn and Spring 1, Spring 2 and Summer assessments How will feedback be received? Students will be given feed back via DIRT sheets after each topic, regular feedback on skills tasks 12 times a year and tests 4 times a year. The students will be actively involved in all of these processes via 'purple pen' What will be seen in books? Books will include notes on the content and practical/skills along with feedback via DIRT sheets (see above), skills sheets and tests will be found with purple pen relating to them all. 		