KEVICC KS3 Curriculum:	Subject: Science	Key terms and vocabulary.
Year: 8 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? Autumn term – Lifestyles and Health This unit compares the effects of healthy and unhealthy lifestyles on the body. Themes include what is good nutrition and how the body absorbs that with the help of bacteria and enzymes. The topic also includes unhealthy diets and outlines the effects of smoking alcohol and drugs on the body. Key Practical – testing different foods for carbohydrate, protein and fat. Spring Term – Adaptation and Inheritance Students will investigate the differences between different types of organisms and why that is important for their survival. Themes include competition and adaptation, different types of variation, how characteristics are inherited and how all of those processes lead to natural selection and extinction. Key practical - measuring variation in humans Summer term – Ecosystem Processes Students will look at why organisms need energy to function and how that energy is captured from the environment and how it is transferred between different organisms. Key practicals: investigation the structure of plants and methods for estimating the number of plants in a habitat.		 understanding be checked? How will assimilation of new vocab be checked? Addiction, Anus balanced diet, carbohydrase, carbohydrate, carbon monoxide, catalyst, deficiency, digestion, drug, enzyme, fibre, food test, lipid, lipase, mineral, nicotine, nutrient, oesophagus, protease, protein, stimulant, tar, vitamin, withdrawal symptom. adaptation, competition, chromosome, continuous, characteristic, discontinuo DNA, inherited variation,
What prior learning supports understanding of this content? Lifestyle and Health – units from Y7 on digestion, diet and exercise as well as Adaptation and Inheritance - from Y7 stude have already covered reproduction and adaptation. Ecosystem Processes – Year 7 work include the environment and how organisms intera with it and with each other for example, for chains.	Adaptation and Inheritancestudied in detail in a GCSE genetics topic as wellas how evolution, adaptation and inheritancectare all linked.	 interdependent, natural selection, species, variational aerobic, anaerobic, bioaccumulation, carnivo chemosynthesis, chloroph community, consumer, deficiency, ecosystem, fermentation, fertiliser, for chain, food web, produce habitat, herbivore, interdependence, mitochondria, niche, nitra oxygen debt, plasma, phosphate, photosynthes population, predator, pre- stomata
Reading : Where in the unit are student supported to read complex academic to Reading activities from textbook and	- · · · ·	

vill be teachers periodic short tests and scientific literacy is marked during feedback. Scientific communication is directly reported to parents as part of the college report.

Key assessments:

literacy also includes reading graphs and tables

in order to extract meaning from data.

Biology questions in Autumn, Spring 1, Spring 2 and Summer assessments Skills tests 1 to 13 which are set as independent learning tasks.

How will feedback be received? Students will be given feedback 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'.

communication.

to draw graphs and tables to effectively

communicate data. Conclusions to practical

work is the most important form of scientific

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.