| KEVICC Key Stage 4 | Curriculum Subject: / | Mathematics | | Key Vocabulary a | nd notation. | |
|---|---|-------------|---------------------------------|---|---|--|
| Summer Half-Term | | | | | COLUEVE | |
| Term: Year 9 Summer Term – Block Four Topic: Standard Form | | | | | SCI/EXP | |
| What is the essential knowledge from this unit? | | | | · | Reciprocal | |
| Vhat do students ne | | Zero | | | | |
| Specification content | | | Specification notes | Exponent | Root | |
| specificat | ion content | | Specification notes | Standard | Big | |
| N2 Understand and use place value | | | including questions set in | form | Small | |
| with very large or very small numbers) | | | context | Standard | Positive | |
| Students should be | e able to: | | | (index) form | Negative | |
| add, subtract | Negative | Whole | | | | |
| add, subtractadd, subtract | Place value | number | | | | |
| interpret a rei | Convert | Ordinary | | | | |
| recall all posit | Multiplying | numbers | | | | |
| recall all multiplication facts to 12 × 12 and use them to derive the corresponding division facts | | | | Dividing | Ascending | |
| perform money and other calculations, writing answers using the correct notation | | | | index law | order | |
| apply the foumultiply and of | Commutative | Descending | | | | |
| multiply and divide a fraction by an integer, by a unit fraction and by a general fraction divide an integer by a fraction. | | | | Scientific | order | |
| | | | | notation | | |
| | with and interpret sta here $1 \le A < 10$ and n | | with and without a calculator | Scientific | | |
| 77710 | noior <u>a</u> n croanan | | interpret calculator displays | calculators | | |
| write an ordinary number in standard form write a number written in standard form as an ordinary number order and calculate with numbers written in standard form solve simple equations where the numbers are written in standard form interpret calculator displays use a calculator effectively for standard form calculations solve standard form problems with and without a calculator. | | | | deepen the stude understanding. What talk about mather concepts, they should be the vital mathematical language that hele | the structure of the maths and deepen the student's understanding. When students talk about mathematical concepts, they should develop the vital mathematical language that helps them explain their ideas fully. | |
| | | | | Students are expe encouraged to us during all discussion feedback and in vacontent. | e terminology ons, verbal | |
| | supports understandin | | How does this content link to f | | | |
| Add, subtract, multiply and divide integers and decimals using both mental and written methods. Revisit standard form using the four operators in context. Solve problems involving percentage change, including: | | | | | | |
| Add, subtract, multiply and divide positive and negative Percentage increase / decrease problems. | | | | | | |
| numbers. Interpret a rem | roblems. Including in financial mo | thematics. | | | | |
| Recall all positive number complements to 100. Recall all multiplication facts to 12 x 12 and use them to O Problems set in contents Using a multiplier. | | | | | | |
| derive the corr | PI. | | | | | |
| Form expression | ns using indices. | | | | | |
| Reading: Where in the unit are students supported to read complex academic text? Writing: Independent writing tasks and how they are structured. • Using the correct subject specific terminology for number | | | | | | |
| Reading and understanding mathematical questions and symbols – examination papers, clo | | | | | | |
| problems' – teacher input. • Responding to questions that ask for an explanation or a reason – examination papers, class books. | | | | | | |

reason – examination papers, class books.

Self-evaluation, reviewing, reflecting and analysis of own work – class books, personalised learning checklists and analysis.

Creating notes that can be used later for revision purposes - class books, revision cards, mind maps etc.

Decoding complex examination questions - explain what

Following instructions to solve problems - break down the

they are asking the student to do' – teacher input.

tasks – teacher input. Recognising terminology, numbers, and symbols.

Key assessments:

How will do students review the information learned?

How will feedback be seen?

Marked end of block, term assessments and mock examinations.

Personalised learning checklists for all assessments identifying strengths and areas of development.

Written teacher feedback and marking in compliance with faculty and College Marking Policies. Student responses to marking. Students self-mark using purple pen. Verbal feedback given every lesson from teacher and peers as appropriate. Teacher and student self-assessment of presentation of class books will be completed to ensure written work is of high standard and students are achieving their