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| **Core Knowledge Map** | | | |
| Subject: **Mathematics** | Year: 10 (Foundation) | | Term: Autumn 1 |
| What are we learning? | | | |
| A screenshot of a computer  Description automatically generated | | | |
| How will I be assessed | | | |
| Retrieval tasks, exit tickets, end of half-term test. | | | |
| Big questions: | | | |
| Can You….?   * Evaluate 72 * Give two possible values for * Prove that the square root of 45 lies between 6 and 7 * Correctly work out 3 + 4 x 2 using BIDMAS * Write any number as a unique produce of its prime factors * Use a Venn diagram to sort information to find HCF and LCM * Recall prime numbers up to 100 | | | |
| How does this build on previous learning? | | How will this link to my future learning? | |
| * Calculating powers and roots * Finding factors and prime factors of a number. * Finding HCF and LCM of a number * Using basic index rules * Convert large and small numbers to standard form. | | * Index numbers appear in many topics and in some formulae for area and volume of shapes * Order of operations will be important in future algebra work | |
| Core knowledge: | | Key vocabulary: | |
| A **factor** of a number or algebraic expression divides that number or expression evenly with no remainder.  A **multiple** is the product result of one number multiplied by another number.  A **prime** number only has two factors, itself and one.  **Rules** of indices:  **Know that**, n0 = 1 and | | Index (indices)  Factor  Multiple  Power  Square  Cube  Root  Odd  Even  Prime  Product | |
| Need more help? Use the Sparx Independent Learning Codes above | | | |

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