**11b4 / 11a5 / 11b6 / 11a7 – Search these codes on Sparxmaths**

**Half-Term 3**

**Calculating space**

**8th January– 14th January**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Spheres | U617 |
|  | U893 |
| Cones | U116 |
|  | U523 |
| Pyramids | U484 |
|  | U871 |

**Fractions, decimals and percenatges**

**15th January – 23rd January**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Percentage change with a calculator | U671 |
| Compound interest | U332 |
| Growth and decay | U988 |

**Algebraic proficiency - visualising**

**24th January – 30th January**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Plotting straight line graphs | U741 |
| Plotting graphs of quadratic functions | U989 |
| Interpreting graphs of quadratic functions | U667 |

**Solving equations and inequalities 2**

**31st January – 9th February**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Factorising quadratic expressions | U178 |
| Factorising to solve quadratic equations | U960 |
| Solving quadratic equations graphically | U601 |

**11a1 / 11b2 / 11a3 / – Search these codes on Sparxmaths**

**Half-Term 3**

**Pattern Sniffing**

**8th January – 14th January**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Revision of sequences (Foundation) | U718 |
| Revision of sequences (Higher) | U661 |
| Position-to-terms rules for Geometric sequences | U958 |

**Solving equations and inequalities 2**

**15th January – 23rd January**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Revision of inequalities (Foundation) | U968 |
| Solve quadratic inequalities | U133 |
| Revision of simultaneous equations (Foundation) | U495 |
| Solving simultaneous equations involving quadratics | U547 |
| Solving simultaneous equations involving quadratics graphically | U875 |

**Algebraic proficiency – visualising 1**

**24th January – 4th February**

|  |  |
| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Graphs of exponential functions | U229 |
| Trigonometry revision | U634 |
| Graphs of trigonometric functions | U450 |
| Transforming graphs | U455 |

**Analysing statistics**

**5th February – 9th February**

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| --- | --- |
| **Topic Area** | **Sparxmaths tasks** |
| Drawing histograms with equal class widths | U185 |
| Drawing histograms with unequal class widths | U814 |
| Interpreting histograms | U983 |
| Calculating averages with histograms | U267 |