**10b4 / 10a5 / 10b6 / 10a7**

**Half-Term 3**

**Solving Equations and Inequalities 1**

**3rd January – 18th January**

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| **Topic Area** | **Chapter Link** |
| Language of inequality (symbols used) | <https://app.mymaths.co.uk/232-lesson/inequations> |
| Identify range of results that satisfy an inequality | <https://app.mymaths.co.uk/1740-lesson/inequalities-and-intervals> |
| Negative inequalities | <https://app.mymaths.co.uk/233-lesson/negative-inequations> |
| Solve equations with unknowns each side | <https://app.mymaths.co.uk/188-lesson/equations-3-both-sides> |
| Solve equations involving brackets | <https://app.mymaths.co.uk/1734-lesson/equations-4-brackets> |

**Calculating Space**

**19st January – 5th February**

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| **Topic Area** | **Chapter Link** |
| Parts of a circle | <https://app.mymaths.co.uk/6010-lesson/parts-of-a-circle> |
| Circumference of circle | <https://app.mymaths.co.uk/269-lesson/circumference-of-a-circle> |
| Area of circle | <https://app.mymaths.co.uk/270-lesson/area-of-a-circle> |
| Arcs and Sectors | <https://app.mymaths.co.uk/1791-lesson/arcs-and-sectors> |
| Surface Area | <https://app.mymaths.co.uk/334-lesson/nets-surface-area> |
| Pythagoras | <https://app.mymaths.co.uk/300-lesson/pythagoras-theorem> |

**Conjecturing**

**6st February – 17th February**

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| **Topic Area** | **Chapter Link** |
| Angle reasoning | <https://app.mymaths.co.uk/257-lesson/angle-reasoning> |
| Angle proofs | <https://app.mymaths.co.uk/261-lesson/angle-proofs> |
| Congruent triangle | <https://app.mymaths.co.uk/247-lesson/congruent-triangles> |
| Similar triangles | <https://app.mymaths.co.uk/306-lesson/similar-triangles> |

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**10a1 / 10b2 / 10a3 – Follow the links below to Hegartymaths tasks**

**Half-Term 3**

**Pattern sniffing**

**3rd January – 8th January**

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| **Topic Area** | **Chapter Link** |
| Geometric sequences | <https://hegartymaths.com/skills/264/preview> |
| Quadratic sequences | <https://hegartymaths.com/skills/248/preview> |
|  | <https://hegartymaths.com/skills/249/preview> |
|  | <https://hegartymaths.com/skills/250/preview> |

**Solving equations and inequalities 2**

**9th January – 18th January**

|  |  |
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| **Topic Area** | **Chapter Link** |
| Linear inequalities as graph regions | <https://hegartymaths.com/skills/273/preview> |
|  | <https://hegartymaths.com/skills/274/preview> |
|  | <https://hegartymaths.com/skills/275/preview> |
|  | <https://hegartymaths.com/skills/276/preview> |
| Listing elements in a set | <https://hegartymaths.com/skills/370/preview> |
|  | <https://hegartymaths.com/skills/371/preview> |

**Calculating space**

**19th January – 5th February**

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| **Topic Area** | **Chapter Link** |
|  |  |
| Volume of pyramids | https://hegartymaths.com/skills/579/preview |
| Volume of cones | https://hegartymaths.com/skills/576/preview |
| Volume of spheres | https://hegartymaths.com/skills/580/preview |
|  | https://hegartymaths.com/skills/581/preview |
| Surface area of cones | <https://hegartymaths.com/skills/587/preview> |
| Surface area of spheres | <https://hegartymaths.com/skills/588/preview> |
| Surface area – multi step | <https://hegartymaths.com/skills/591/preview> |
| Area of similar shapes | <https://hegartymaths.com/skills/615/preview> |
|  | <https://hegartymaths.com/skills/616/preview> |
|  | <https://hegartymaths.com/skills/617/preview> |

**Conjecturing**

**6th February – 17th February**

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| **Topic Area** | **Chapter Link** |
|  |  |
| Parts of a circle | https://hegartymaths.com/skills/592/preview |
| Circle theorems | https://hegartymaths.com/skills/594/preview |
|  | https://hegartymaths.com/skills/594/preview |
|  | https://hegartymaths.com/skills/594/preview |
|  | <https://hegartymaths.com/skills/595/preview> |
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|  | <https://hegartymaths.com/skills/600/preview> |
|  | <https://hegartymaths.com/skills/601/preview> |
|  | <https://hegartymaths.com/skills/602/preview> |
| Circle theorems (using algebra) | <https://hegartymaths.com/skills/603/preview> |
| Circle theorems (multi-step) | <https://hegartymaths.com/skills/604/preview> |
|  | <https://hegartymaths.com/skills/605/preview> |
|  | <https://hegartymaths.com/skills/606/preview> |

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