**Knowledge Organiser**

**Autumn Term 2 Set 1 Year 10**

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| **Topic** | **Self-Assessment** | **Independent Learning and** **homework tasks** |
| **MyMaths** | **CorbettMaths.com** |
| Transformations; reflection, rotation, translation (3) |  | Shape, Transformations, …… | Video 272 – 275, 326 |
| Transformations (4/6); enlargement |  | Shape, Transformations, …… | Video 104 - 109 |
| Calculating averages from a (grouped) frequency table (5) |  | Data, Processing Data, Mean from Grouped Data 1 | Video 54 - 55 |
| Calculating moving averages (6) |  | Statistics, Processing Data, Time Series |  |
| Constructing cumulative frequency tables and graphs (6) |  | Data, Presenting Data, Cumulative Frequency 1 | Video 153, 154 |
| Calculating the median and interquartile range (6) |  | Data, Presenting Data, Cumulative Frequency 2 | Video 50 - 52 |
| Constructing box and whisker plots (6) |  | Data, Presenting Data, Box and Whisker Plots | Video 149 - 150 |
| Drawing scatter graphs and identifying types of correlation (4) |  | Data, Presenting Data, Scatter Graphs | Video 165 - 166 |
| Drawing and interpreting distance time & velocity time (6/7) |  | Algebra, Graphs – Distance Time Graphs, Velocity Time Graphs | Video 171 |
| Calculate lengths of arcs & areas of sectors (6) |  | Shape, Area & Perimeter – Arcs, Sectors, Segments | Video 58, 63 |
| Calculate volume & surface area of prisms (4/5) |  | Shape, Vol & Surf Area – Nets & Surf Area, Vol of Prisms & Cylinder | Video 355 - 358 |

**Stretch and Challenge:**

1. Practise UKMT Intermediate Maths Challenge Past papers on:

 https://www.ukmt.org.uk/competitions/solo/intermediate-mathematical-challenge/archive

1. Set up an account on parallel.org.uk website, using your school email address and use teacher code “ha52kh”
2. Attend Puzzle Club one lunch time each week

**Autumn Term 2 Knowledge**

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**Scan for full list of Maths facts**