

Year 9 Half Term 6 – Transformations, Constructions and Review (8-10 lessons + Y10 preparation)

If you are in 9X4, 9X5, 9X6, 9Y4, 9Y5, 9Y6 please use links from the left hand column (Foundation skills) and middle column (Core Skills).

If you are in 9X1, 9X2, 9X3, 9Y1, 9Y2, 9Y3 please use links from the middle column (Core Skills) and right hand column (Mastery)

Every student in Year 9 has been added to Teams by their maths teacher. Each week we will post in Teams to let you know which particular part of the home learning you should focus on and we will set a task every week to assess your learning. You should also use Teams to contact your teacher for help if you need to.

The list below is a guide to what you would normally learn in the last half term if you were in school. Your teacher will be thinking very carefully about what they will ask you to do from this list and we may include some consolidation/revision of things you covered earlier in the year. It is important that you check your school email regularly and log into Teams so that you receive all relevant information and tasks for your class.

| Higher Groups 1,2,3 | | |
|--|---|--|
| Foundation Groups 4,5,6 | | |
| Foundation Skills | Core Skills | Mastery |
| <p>Symmetry: line Video 316 Textbook Exercise Textbook answers</p> <p>Symmetry: rotational Video 317 Textbook Exercise Textbook answers</p> <p>Test style questions on the above topics: Practice Questions Practice Questions answers</p> <p>Congruent shapes Video 66 Textbook Exercise Textbook answers</p> | <p>Translations: vector Video 325 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Translations: describing Video 326 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Reflections Video 272 Video 273 Video 274 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Rotations Video 275 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> | <p>Enlargements Video 104 Textbook Exercise Textbook answers</p> <p>Enlargements: using a centre of enlargement Video 104a</p> <p>Enlargements: describing Video 105</p> <p>Enlargements: finding c.of.enlarge Video 106</p> <p>Textbook Exercise on the above skills and Textbook answers</p> <p>Test style questions on enlargements: Practice Questions Practice Questions answers</p> <p>Optional extension:</p> |

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|--|--|--|
| | | Enlargements: fractional scale factor Video 107 Textbook Exercise Textbook answers |
| <p>Revision of using a protractor</p> <p>Angles: measuring Video 31 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Confidently use a compass: This video talks you through how to use a compass to draw circles</p> | <p>Constructions: triangles ASA Video 81 SAS Video 82 and SSS Video 83 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Constructions: perpendicular bisector Video 78</p> <p>Constructions: angle bisector Video 72 Practice Questions Textbook Exercise Practice Questions answers Textbook answers</p> <p>Angles: bearings Video 26 given bearings from two points Video 27 back bearings Video 27a Textbook Exercise Textbook answers Practice Questions Practice Questions answers</p> <p>Optional extras: There's some nice patterns you can create using just a compass and pencil – here are a few you could try! Basic flower Flower of life mandala</p> | <p>Constructions: perpendicular to point Video 79</p> <p>Constructions: perpendicular: point on line Video 80 Textbook Exercise (no answers, sorry)</p> <p>Optional extras: You can apply the standard constructions to do a couple of cool things with triangles: Inscribing circles Circumscribing circles</p> <p>Also, a challenging (optional) puzzle from NRich is here</p> |