Teaching and Learning Content: Mathematics
Year Group: 8
Spring – Half Term 4

MEADOW PARK SCHOOL

Topics:

- 3D Shapes
- Geometry
- Congruence & Scaling

Home Learning:

Students are expected to complete one piece of home learning every week as well as addressing areas that they have recorded as requiring further attention via their Personal Learning Checklist. The PLC links to corresponding MathsWatch clips and practice questions

Key Questions:

- What is the volume of a cube of side length 5cm?
- What is the capacity (in ml) of a vessel of dimensions 4cm by 4cm by 20 cm?
- How many faces, edges and vertices does a tetrahedron have?
- What is the surface area of a cube of side length 5cm?
- What is the size of each interior angle of an equilateral triangle?
- A single transversal passes through a pair of parallel lines. What is the greatest number angles of different sizes created?
- Define a trapezium.
- What is the difference between congruence and similarity?
- A map scale is 1:100. 5cm on the map represents how many metres in real life?

Diagnosis

- 10 question diagnosis tests for each half term
- Retrieval activities from knowledge organisers like starter quizzes
- Mini whiteboard activities

Therapy

- Sharing model responses (teacher/student led feedback)
- DIRT tasks
- Peer to peer support in lessons
- Specific highlighted lessons for students

Students will be able to:

- Work out the volume, capactiy and surface area of cubes and cuboids
- Construct 3D shapes from nets
- Name 3D shapes and be able to states their properties
- Know the sum of interior angles of triangles and quadrilaterals
- Calculate angles on parallel lines
- Recognise congruent shapes
- Use ratio to compare lengths and areas of 2D shapes
- Understand and use scale diagrams and map ratios

Testing

- Students will complete an assessment each half term from which they will receive a detailed QLA to continue to highlight areas of weakness into the next half term.