

Curriculum Links

Video and activity pack 1: Introduction to Navigation

- **MTH 2-16a** Having explored a range of 3D objects and 2D shapes, I can use mathematical language to describe their properties, and through investigation can discuss where and why particular shapes are used in the environment.
- **MTH 2-17a** I have investigated angles in the environment, and can discuss, describe and classify angles using appropriate mathematical vocabulary.
- **MTH 3-16a** Having investigated a range of methods, I can accurately draw 2D shapes using appropriate mathematical instruments and methods.
- **MTH 3-17a** I can name angles and find their sizes using my knowledge of the properties of a range of 2D shapes and the angle properties associated with intersecting and parallel lines.
- **MTH 3-17b** Having investigated navigation in the world, I can apply my understanding of bearings and scale to interpret maps and plans and create accurate plans, and scale drawings of routes and journeys.
- **MTH 4-18a** I can plot and describe the position of a point on a 4-quadrant coordinate grid.
- **MTH 4-18b** I can apply my understanding of the 4-quadrant coordinate system to move, and describe the transformation of, a point or shape on a grid.
- **SOC 3-14a** I can use a range of maps and geographical information systems to gather, interpret and present conclusions and can locate a range of features within Scotland, UK, Europe and the wider world.

Video and activity pack 2: Latitude and Longitude

- **MNU 2-11a** I can use my knowledge of the sizes of familiar objects or places to assist me when making an estimate of measure.
- **MNU 3-08a** I can show how quantities that are related can be increased or decreased proportionally and apply this to solve problems in everyday contexts. Expresses quantities as a ratio and where appropriate simplifies, for example, 'if there are 6 teachers and 60 children in a school find the ratio of the number of teachers to the total amount of teachers and children'.
- **MTH 3-17a** I can name angles and find their sizes using my knowledge of the properties of a range of 2D shapes and the angle properties associated with intersecting and parallel lines.
- **MTH 4-16a** I have explored the relationships that exist between the sides, or sides and angles, in right-angled triangles and can select and use an appropriate strategy to solve related problems, interpreting my answer for the context.
- **SOC 2-06a** I can discuss why people and events from a particular time in the past were important, placing them within a historical sequence.
- **SOC 3-05a** I can describe the factors contributing to a major social, political or economic change in the past and can assess the impact on people's lives.
- **SOC 4-05a** I can present supported conclusions about the social, political and economic impacts of a technological change in the past.

Video and activity pack 3: Navigation of Sea and Sky

- **MNU 2-10a** I can use and interpret electronic and paper-based timetables and schedules to plan events and activities, and make time calculations as part of my planning.
- **MNU 2-10c** Using simple time periods, I can give a good estimate of how long a journey should take, based on my knowledge of the link between time, speed and distance.
- **MNU 3-10a** Using simple time periods, I can work out how long a journey will take, the speed travelled at or distance covered, using my knowledge of the link between time, speed and distance.
- **MNU 4-10a** I can research, compare and contrast aspects of time and time management as they impact on me. Demonstrates effective time management skills, for example, working with different time zones or making plans, including across midnight. Carries out calculations involving speed, distance and time involving decimal fraction hours. Calculates time durations across hours, days and months.
- **SOC 2-09a** Having explored the ways journeys can be made, I can consider the advantages and disadvantages of different forms of transport, discussing their impact on the environment.

Video and activity pack 4: Satellite Navigation

- **MTH 3-17b** Having investigated navigation in the world, I can apply my understanding of bearings and scale to interpret maps and plans and create accurate plans, and scale drawings of routes and journeys.
- **MTH 2-18a / MTH 3-18a** I can use my knowledge of the coordinate system to plot and describe the location of a point on a grid.
- **MTH 3-17b** Having investigated navigation in the world, I can apply my understanding of bearings and scale to interpret maps and plans and create accurate plans, and scale drawings of routes and journeys.
- **SCN 1-06a** By safely observing and recording the sun and moon at various times, I can describe their patterns of movement and changes over time. I can relate these to the length of a day, a month and a year.
- **SCN 4-06a** By researching developments used to observe or explore space, I can illustrate how our knowledge of the universe has evolved over time.

