2021-22 Cross curricular maths overview

|  | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Year 1 | IT&C grouping and sorting  TW - Counting & addition & subtraction linked to theme | TW - position & location vocab  TW - Counting & addition & subtraction linked to theme | TW - timelines & dates  Ordering size  sorting  TW - Counting & addition & subtraction linked to theme  Role play shops | TW - handling data in pictograms  Interpreting tables  sorting  TW - Counting & addition & subtraction linked to theme | Science - measuring growing beans  Counting bean activities  sorting  TW - Counting & addition & subtraction linked to theme  Role play shops | Role play shops |
| Year 2 | Weighing for D&T  Tallies and graphs  Data handling for science  Pattern in art | Measuring for paper patterns and  Garments  Timing in science | Timeline dates | Measuring for D&T  Measuring vehicles distance | Data handling linked to minibeast hunts | Measuring longer distances  Mapwork with directional vocab. |
| Year 3 | **Geography** - bar charts (Statistics)  (comparing the climate of a chosen  destination throughout the year).  **Science** - soil permeability investigation -  measuring the water that passes  through (Volume & Capacity).  **History –** chronological order of events in Pompeii & Mary Anning’s life (place value & time) | | **History** - hunting and gathering tally/  frequency tables and comparing  data: greater than/ less than (Statistics).  **Easter** - egg hunt (problem  solving with fractions).  **Science** - Friction investigation - measuring  the distance a car travels on different  surfaces (Length)  **Science -** Strength of magnets - measuring the distance that different magnets pick up paperclips, bar chart to compare the results (Height & Length). | | **History** - comparing the reign of different Pharaohs using the date that they became leaders and when they died (Place value/ addition and subtraction).  **D&T**- Egyptian bread making (Measurement: Weight & Mass)  **D&T**- Rising sarcophagus (Measuring lengths)  **Science** - water transportation in plants investigation (measuring how far the water has travelled each hour- line graph to compare the two plants). | |
| Year 4 | **Science**: Measures- length cm / mm(body parts)  **History**- Greek number system  **Science**:Venn diagram- sorting electrical appliances  **Computing**: bar graphs, line graphs & pictograms  **Science**: 3D models of electricity pathway – nets  **D&T**: nets & measuring cm / mm sledges | | **Science**: negative numbers - reading thermometers  **Science**: line graph of boiling water – prediction  **Science**: Measures,same volume different containers (liquids)  **Science**: Measures - weight ( making crispy cakes)  **History**: Roman honey buns – weight/capacity (D&T)  **Science**: measuring temp.- Using data loggers & time graphs of water being heated | | **Science**: measuring sound - Using data loggers  **Science**: Measures- length cm / mm (string telephones ) & sound- data loggers  **Geography:** Rivers - Collecting & presenting data (river lengths) Measures collecting river data (trip)  **PE**: Measures- perimeter & scale (tennis court)  **PE**: Athletics- length m / cm | |
| Year 5 | **D&T**: measuring cm/ mm longboats and 3-D Christmas cards  **History**: Timelining dates of early civilisations  **Science**: Forces - measuring distances and mass | | **Geography**: Collecting and presenting data - population distribution and density, rainfall, temperature  **Geography**: Number - North America worded problems.  **Geography** - Mapwork - grid references and directional vocabulary  **English:** Venn diagrams - Exploring two characters (Holes)  **D&T**: Sandwich design - measurement (weighing and measuring ingredients) and number (costing) | | **History**:Maya number system  **Science**: Earth and Space - Measurement/ Collecting and presenting data | |
| Year 6 | **Geography: (Statistics)** Collecting and presenting data - population distribution and density, rainfall, temperature - mean and mode  **Geography (Coordinates)**- Mapwork - grid references and directional vocabulary  **D&T:** **(Measurement, Number & Shape)**- Making South American food - weighing and measuring ingredients, costing and nets for packaging | | **History (Statistics)-** Exploring historical data and statistics e.g. number of executions etc - mode- mean-median  **Art/ D&T (Measurement)** The Highwayman puppets -scale and measuring lengths of wood  **Science (Collecting and presenting data)** Heart Rate investigation - How does it change when we exercise?  **History (Place Value and Time)**  Ordering periods of history and significant events and developments | | **D&T (Measurement)** Moving vehicles **-** measuring and cutting lengths of wood | |