

| Topics in this cycle: Summer 2 | Taught: Summer 2 | Year Group: 9 |
|---|-------------------------|---|
| Key knowledge/concepts to be learnt ('Tell me about...') | | Websites/blogs/YouTube links and further reading to deepen and consolidate learning |
| <p><u>Rates</u></p> <ul style="list-style-type: none"> • Solve SDT problems • Use distance-time graphs • Solve DMV problems • Solve flow problems and their graphs • Rates of change and their units <p><u>Probability:</u></p> <ul style="list-style-type: none"> • Relative frequency / expected outcomes • Use tree diagrams • Use tree diagrams 'without replacement' • Use diagrams to work out problems • Probability - mixed problems <p><u>Algebraic Representation:</u></p> <ul style="list-style-type: none"> • Draw quadratic graphs • Interpret quadratic graphs • Interpret other graphs, including reciprocal and piece-wise • Represent Inequalities on a number line • Solve simultaneous equations Graphically | | <p> https://vimeo.com/542185518 https://vimeo.com/542187014 https://vimeo.com/542186927 </p> <p> https://vimeo.com/548330422 https://vimeo.com/696461943 </p> <p> https://vimeo.com/597236425 https://vimeo.com/617794436 https://vimeo.com/643414214 </p> |

Home-School Learning Collaboration – Mathematics



| Key Vocabulary and Definitions To Be Learnt | | What Will The Assessment Look Like? |
|---|---|---|
| Gradient | Steepness on a line | |
| Rate of change | Tells us how fast something changes in time | |
| Event | A set of outcomes | |
| Outcome | Is a possible result of an experiment | |
| Probability | A chance that something will happen | |
| Fair | Equal chances | |
| | | Family Learning Opportunities |
| Biased | Probabilities of outcomes are different | You may challenge yourself by finding out what conditional probability is: https://vimeo.com/696462401 |
| Experimental probability | Probability found based on an experiment (trial) | |
| Independent outcomes | When one outcome does not influence the answer for another | |
| Parabola | A graph of quadratic function (u-turn) | |
| Turning point | A maximum or minimum point of a quadratic function | |
| Roots | Points where a quadratic function passes through x-axis (function can have one, two or no roots) | |
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