

Year 8 Homeschooling Document

| Date | Term 1 | Topic | Teaching | Practice | Notes |
|-----------|-----------|-----------------------------|---|---|--|
| 7th Sept | Week 1 | Prime Numbers & Proof | Factors & Multiples | Contained within the lesson | Work through lesson 1 & 7 |
| 14th Sept | Week 2 | Prime Numbers & Proof | Prime factor Decomposition | Contained within the lesson | Key Skills on Dr Frost also available for practice |
| 21st Sept | Week 3 | Multiplicative Change | Solve Problems using Direct Proportion | Recipes | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Conversions Graphs & Currency Conversion | Exchange Rates | Watch both videos - ignore reference to worksheet. Complete practice questions |
| 28th Sept | Week 4 | Multiplicative Change | Similar Shapes | Similar Shapes | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Scale Factors & Maps | Scales & Maps | Watch the last three videos. Then complete practice worksheet |
| 5th Oct | Week 5 | Multiply & Divide Fractions | Multiplying Fractions | Multiplying Fractions | Watch the first 4 videos. Then complete the Practice questions. Complete Dr Frost Key Skills #157 |
| | | | Dividing Fractions | Dividing fractions | Watch the 4 dividing fraction videos. Key Skills on Dr Frost also available for practice |
| 12th Oct | Week 6 | Multiply & Divide Fractions | Multiply & Divide Improper fractions | Dr Frost | Watch the video. Complete Dr Frost Key Skills #215 & #216 |
| | | | Algebraic Fractions | Multiply Algebraic Fractions | Algebraic Fractions is extension - Complete Q1 only |
| 19th Oct | Week 7 | Review of Previous Ratio | Ratio | Contained within the lesson | This was covered in year 7 |
| 26th Oct | Half Term | | | | |
| | Term 2 | | | | |
| 2nd Nov | Week 1 | Cartesian Plane | Coordinates | Coordinates | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Lines parallel to axes | Lines Parallel to Axes | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Recognise $y=x$ and $y=kx$ | Graph Plotter | Watch video - ignore reference to worksheet. Investigate using graph plotter |
| 9th Nov | Week 2 | Cartesian Plane | Direct Proportion $y=kx$ | | |
| | | | Recognise $y=x+a$ | Graph Plotter | Watch video - ignore reference to worksheet. Investigate using graph plotter |
| | | | Gradient of a line & explore negative gradient | Gradient of line | |
| 16th Nov | Week 3 | Cartesian Plane | Link to Linear sequences & Plot $y=mx+c$ | Plot $y=mx+c$ | Watch both videos - ignore reference to worksheet. Complete practice questions. Dr Frost Key Skills #172 #173 #174 |
| | | | Non-linear graphs & Midpoint of a line | Midpoint of 2 points | Watch both videos - ignore reference to worksheet. Complete practice questions |
| 23rd Nov | Week 4 | Representing Data | Draw and Interpret Scatter Graphs | Draw & Interpret Scatter graphs | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Understand and describe correlation | Correlation | Watch video - ignore reference to worksheet. Complete practice questions |
| 30th Nov | Week 5 | Representing Data | Line of best fit | Line of best fit | Watch both videos - ignore reference to worksheet. Complete practice questions |
| | | | Types of data | Types of data | Watch video - ignore reference to worksheet. Complete practice questions |
| | | | Read and interpret frequency tables | frequency tables | Watch both videos. Work through information from webpage |
| 7th Dec | Week 6 | Representing Data | Represent discrete and continuous data | Dr Frost Key Skill #150 | Watch both videos - ignore reference to worksheet. Complete practice questions from Dr Frost |
| | | | Two way tables | Two Way tables - page 1&2 | watch video - ignore reference to worksheet. Complete practice questions page 1&2 |
| 14th Dec | Week 7 | Tables & Probability | Sample Space | Sample Space | Watch the first two videos - ignore reference to worksheet. Complete practice questions |
| | | | Probability - Two Way Tables | Two Way tables - page 3&4 | Watch video - ignore reference to worksheet. Complete practice questions - page 3&4 |
| | | | Probability - Venn Diagrams | Venn Diagrams | Watch video - ignore reference to worksheet. Complete practice questions |