

Stage 1 Essential Mathematics Semester 1 Overview 2019

Teacher: Rachel Pillar

Weeks	Topic	Summative Assessments
Term 1 1 - 9 10 - 11	Topic 1: Calculations, Time and Ratio <ul style="list-style-type: none">• Calculations – operations, rounding, estimation and approximation, fractions, decimals and percentages, calculations with and without a calculator• Time and rates – converting between units of time, representing time, time intervals, making comparisons using rates• Ratio and scale – solving problems using ratios (link to fractions), scale factors, diagrams and calculating actual and scale distances Topic 2: Earning and Spending <ul style="list-style-type: none">• Earning – different ways to earn and income, calculating income, personal taxation• Spending – percentages of amounts, percentage increases and decreases (mark-ups, discounts, GST), costs and charges when purchasing goods• Budgeting – planning to spend money, personal budgeting, business budgeting	Skills and Applications Task 1: Calculations, Time and Ratio Assignment (30 %) Section 1: Basic number operations without technology Section 2: Using rounding techniques to estimate arithmetic calculations Section 3: Calculations using decimal numbers without technology Section 4: Time conversions and calculation of time lapsed Section 5: Use of unit price to make comparisons between products Section 6: Ratio Completed at students' own pace over Weeks 3-9 Due Friday 29th March, Week 9 Folio Task 1: Design Your Own Space (20 %) Students construct two scaled designs and justify which is better. Due Friday 5th April, Week 11
Term 2 1 - 3 4 - 9	Topic 2: Earning and Spending continued... Topic 3: Geometry <ul style="list-style-type: none">• Shapes – 2D and 3D shapes (classification and properties),• Angle geometry – classifying and measuring angles, determining unknown angles• Geometry and construction – techniques for constructing lines, angles and shapes	Folio Task 2: How to Pay a Food Delivery Driver? (20 %) Students investigate different scenarios about earning income by working as a food delivery driver. They determine which earning option is best under different circumstances. Due Friday 10th May, Week 2 Skills and Applications Task 2: Geometry and Construction Assignment (30 %) Students work at their own pace and use a range of techniques to construct geometrical figures and shapes. Students access online instructions for construction techniques and leave all construction marks to support evidence of the steps used in each construction. Completed at students' own pace over Weeks 4-9 Due Friday 28th June, Week 9