Yr10 Applied Mathematics Project – Term 2, 2024

Strand	Emerging skills (VL)	Working towards the level (L)	At the level 1st complexity (M)	At the level 2nd complexity (H)	At the level 3rd complexity (VH)
Number & Algebra	You have provided your teacher with evidence that you have completed some set classwork leading up to the CAT that you have some basic awareness and ability to work with the content	You have provided your teacher with evidence that you have completed most set classwork leading up to the CAT and that you have demonstrated some understanding and ability to work with the assessed skills. You have attempted the Understanding and Fluency component of the CAT, however, there are **several inaccuracies in your responses and/or some of your responses are incomplete, too brief and/or you may have completed it with guidance**.	You have completed the Understanding and Fluency components of the CAT to a satisfactory standard and have demonstrated a satisfactory *understanding* and ability to work with assessed skills.	You have completed the Problem-solving component of the CAT to a satisfactory standard and have demonstrated a satisfactory understanding and ability to *problem solve* with the assessed skills.	You have completed the Reasoning component of the CAT to a satisfactory standard and have demonstrated a satisfactory ability to work and *reason* with the assessed skills.
			For the Number and Algebra Strand, you can: • Connect fractions, decimals and percentages and carry out simple conversions – Q1 (246, 247) • Compare equivalent fractions, decimals or percentages to identify the greatest value – Q2 (242) • Make simple decisions based on fractions comparison – Q3 (242) • Recognise and solve problems involving simple ratios – Q7 (243, 244) • Express one quantity as a fraction of another – Q9, Q19 (245) • Find percentage quantities and express one quantity as a percentage of another – Q17 (248) • Express one quantity as a fraction of another and connect it to the equivalence decimal – Q20 (245, 246, 247)	• Recognise and solve problems involving simple ratios – Q4 (249) • Solve problems by converting and comparing fractions, decimals, or percentages – Q5 (247, 242) • Conduct multiplications that involves ratios using efficient written strategies and digital technology – Q8 (243, 244) • Express one quantity as a fraction of another, and simplify – Q9, Q19 (245)	• Explain decision-making through comparing fractions using equivalence – Q3 (242) • Make predictions based on calculations that involve multiplication and division of fractions and decimals – Q6 (244)
Statistics & Probability			**For the Statistics and Probability Strand, you can:** • Assign probabilities to the outcomes of events and determine probabilities for events – Q10 (267) • Create sample space for single-step experiments with equally likely outcomes – Q13 (266) • Provide a simple yes/no judgements of the given likelihood statement – Q14 (267) • Construct and compare a range of data displays including stem-and-leaf plots and dot plots – Q15 (269) • Abstract simple information from statistical graphs – Q16 (269)	• Gather information from a given real-life scenario and summarise probabilities of events through a table – Q11 (267) • Abstract and analyse process information from statistical graphs – Q16 (269) • Calculate and determine probabilities of events for a given real life scenario – Q18 (267)	• Investigate probabilities of a series of real-life events, conduct decision-making and justify – Q12 (267) • Explain and justify judgements made on the given likelihood statement – Q14 (267) • Abstract information, mathematically process and analyse to produce complex information from statistical graphs – Q16 (269)

Note: codes after each question number (e.g., 245, 242, 269, etc.) represent the matching VicCurric descriptors (e.g., VCMNA245, VCMNA242, VCMSP269, etc.)

Note: marks can also be allocated to each question, to get a percentage result for the task, if needed; for reporting purposes, descriptors can clearly identify and ZAD and ZPD of each individual.