



# Condobolin High School



## Notification of an Assessment Task

**Name and Type of Task:** Exam

**Subject:** Year 10 5.1/5.2 Mathematics

**Task Number:** 1

**Date Issued:** Term 2, Week 1  
Wednesday 1<sup>st</sup> May, 2024

**Date Due:** Term 2, Week 3  
Wednesday 15<sup>th</sup> May, 2024

**Total Marks:** 50

**Weighting:** 30%

**Class Teacher/s:** Mrs Davis, Ms Verinder,  
Mrs Waller,

**Head Teacher:** Mrs Davis

**Submission Instructions** - Students are to complete the class task on Wednesday 15<sup>th</sup> May in class. The task MUST be submitted to your teacher upon completion and is NOT to be removed from the room.

### **Task Context:**

Throughout Term 1, you have studied the following topics in class:

- Probability
- Indices

In this task, you will be tested on the ability to solve a range of questions from this content learnt throughout Term 1 in a formal written test.

### **Course Outcomes:**

MA5.1-13SP	Calculates relative frequencies to estimate probabilities of simple and compound events
MA5.2-17SP	Describes and calculates probabilities in multi-step chance experiments
MA5.1-5NA	Operates with algebraic expressions involving positive-integer and zero indices, and establishes the meaning of negative indices for numerical bases
MA5.2-7NA	Applies index laws to operate with algebraic expressions involving integer indices

### **Task Description:**

- You will be provided with a range of questions in the form of a one period test. The test will be separated into 2 parts, according to the topics: Probability and Indices
- The test will consist of a mixture of multiple choice, short answer and multi step questions
  - o 10 multiple choice questions (5 marks for each topic)
  - o 11 short answer and multi step questions with multiple parts (20 marks for each topic)
- You will be allowed to bring in a NESA-approved calculator.
- Marks will be allocated throughout the task.

### **Criteria for Assessing Learning:**

You will be assessed on your ability to:

- Find the sample space for an experiment
- Calculate the probability of an event
- Solve probability problems involving single-step events
- Find the complement of an event
- Use the relative frequency to find the probability of an experimental event
- Find the likelihood of an event
- Interpret a Venn diagram
- Interpret a tree diagram
- Calculate probabilities using a two-way table
- Calculate the probabilities of multi-step experiments
- Use index laws to solve problems

### **Key Verbs:**

**Calculate:** Determine from given facts, figures or information

**Compare:** To describe the difference between two or more objects using mathematical terms

**Find:** To identify the solution

**Label:** Name the parts of a shape or diagram

**List:** Make an ordered logical set of answers

**Solve:** To find the value of

### **Marking Guideline:**

Marks are allocated to questions on the test paper.