

Camden High School

Together we achieve

Year 8 Science First-hand Investigation 2024

TOPIC: CW2 Chemical Changes: First Hand Investigation		
SUBMISSION REQUIREMENTS: Students will undergo a First-hand investigation during		
Term 3, Week 7 This will occur during a Science lesson allocated by the class teacher.	MARKS: / 35	
The date of my Science First-hand Investigation is: Day: Period: Peri		

Outcomes to be assessed:

SC4 - 4WS - *Identifies* questions and problems that can be tested or researched and makes predictions based on scientific knowledge.

SC4 – 5WS - Collaboratively and individually produces a plan to <u>investigate</u> questions and problems.

SC4 – 6WS - *Follows* a sequence of instructions to safely undertake a range of **investigation** types, collaboratively and individually.

SC4 – 7WS - Processes and *analyses* data from a first-hand investigation and secondary sources toidentify trends, patterns and relationships and draw conclusions.

SC4 – 17CW - <u>Explains</u> how scientific understanding of, and discoveries about the properties of elements, compounds and mixtures relate to their uses in everyday life.

DIRECTIONAL VERBS:

<u>Analyse</u>: Identify components and the relationship between them; draw out and relate implications <u>Explain</u>: Relate cause and effect; make the relationships between things evident; provide why and/or how.

Identify: Recognise and name

Investigate: Plan, inquire into and draw conclusions about

Produce: Make or manufacture

TASK DESCRIPTION: Students will engage in a first-hand **investigation** focused on physical and chemical changes. The assessment will involve **following** a sequence of instructions and **analysing data** related to these changes. Students are required to **explain** the concepts behind these changes and their significance in scientific contexts. **Duration: 55 minutes IN CLASS** Extensive feedback will be provided to students upon the return of the completed assessment.

ASSESSMENT CRITERIA

You will need to apply your knowledge of chemical and physical reactions in a laboratory setting by **following** a sequence of instructions and performing chemical testing on various substances safely.

You will need to be able to **analyse** the data to **identify** if a change you see is a chemical change or a physical change by applying the signs of physical and chemical changes accurately.

You should **explain** the signs of a chemical reaction and understand how to tell whether a chemical change or a physical change is taking place.

You should also ensure you understand all the laboratory safety rules and can conduct testing by yourself safely.