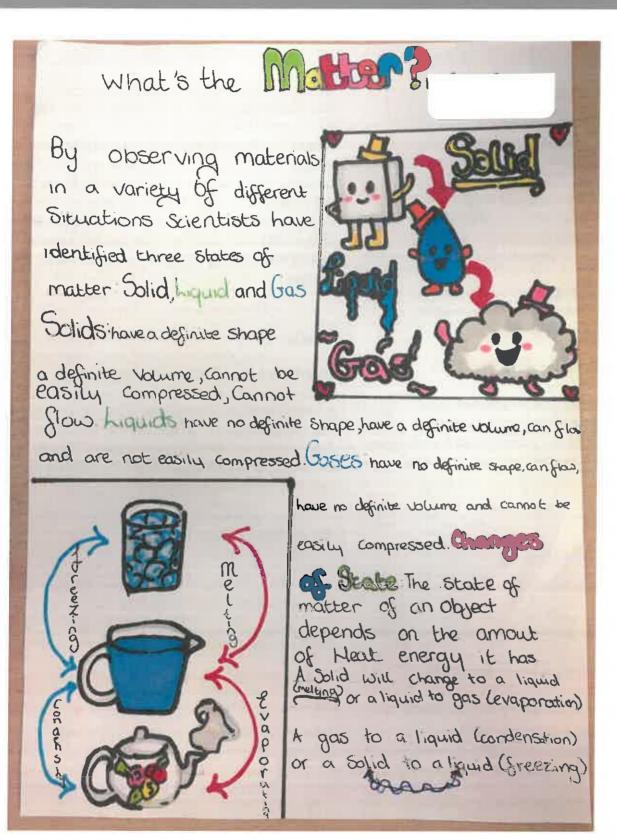
# Junior Cycle Science - First Year



States of Matter: Example 1

P2



Model does not refer to the atomic/particle nature of matter.

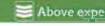
Three states are identified.

SC3: The Properties of three States of Matter are outlined with one error.

SC4: Communicates change of state in words and diagram.

**Appropriate** presentation.

**Overall judgement:** In Line With Expectations



## Junior Cycle Science - First Year



Investigating

Communicating



Knowledge and understanding



### States of Matter

### Learning outcomes in focus

Students should be able to:

CW2 develop and use models to describe the atomic nature of matter; demonstrate how they provide a simple way to account for the conservation of mass, changes of state, physical change, chemical change, mixtures, and their separation

CW4 classify substances as elements, compounds, mixtures, metals, solids, liquids, gases and solutions

NS1 appreciate how scientists work

NS7 organise and communicate their research and investigative findings in a variety of ways fit for purpose and audience, using relevant scientific terminology and representations

## Learning intentions

We are learning:

- about matter and how it changes.
- about how scientists represent ideas.
- to present work in a way that is clear and interesting.

## Teaching and learning context

This task was undertaken by a mixed ability First Year group with a high percentage presenting with conditions such as Dyslexia, Dyscalculia, Asperger's syndrome, low functioning and high functioning ASD. Prior to the task the students had spent three class periods investigating States of Matter, where they observed the Law of conservation of Mass. Students are familiar with the fact that almost all objects they encounter are composed of Matter. They have examined the three states in which matter can exist and are familiar with the properties of three states of matter.

#### Task

Working individually write an article or cartoon sketch for the school magazine science section. You will need to communicate the types of matter that can exist in a clear, humorous and fact based manner. Include diagrams and text in your article. The layout must be neat and organised.

#### **Success Criteria**

I can:

SC1: present models of matter

SC2: identify states in which matter can exist

**SC3**: communicate the properties of states of matter

**SC4:** communicate how states of matter change

**SC5**: present scientific information in a clear and appropriate manner