

Phase 2: Science Statements 2023/2024





Junior Certificate School Programme

Blackrock Education Centre, Kill Avenue, Dún Laoghaire, Co. Dublin

Supporting teachers and students within the Junior Certificate School

Programme

Introductory text for JCSP Statements Supporting The Junior Cycle Science Statements

The statements below were developed with input from a number of practicing Science teachers in JCSP schools. They are offered as **one possible model** that teachers may use to approach the teaching, learning and assessment of the learning outcomes in the Curriculum Specification for Junior Cycle Science. They will be adjusted over time based on feedback from teachers in JCSP schools.

The Science specification may be accessed in full at www.curriculumonline.ie. In addition, professional supports for teaching Junior Cycle Science may be accessed through the Science section of the Junior Cycle for Teachers (JCT) website, at www.jct.ie/science/science

It is important to note that the statements below offer a sample approach for the creation of Junior Cycle Science statements. They have been drafted from the unifying strand, 'The Nature of Science' strand. They do not cover all of the learning outcomes which are expected to be taught in the new Junior Cycle course. It is envisaged that students would be given opportunities to experience rich learning through engaging with aspects of the Nature of Science learning outcomes in all of their classes.

Teachers are encouraged to engage with these statements as a possible approach to creating Science statements for their own students. Students' teachers are best placed to develop statements which will support their own students in their own particular class and school context.



Area of Experience: Science

Science

At Junior Cycle level I can:

Work begun

STJC1 I can investigate in Science	000
STJC2 I can collect Data	000
STJC3 I can communicate in Science	000
STJC4 I can demonstrate knowledge and understanding	000

■□□ | Work in progress ■□□ | Work completed

I can investigate in Science

Student:

Class:

Science

I can:	
I have begun 🔲 🔲 📙 I am working on this 🔲 🔲 📙 I can 🔲 🔲)0
 Design and carry out an investigation using the scientific method Understand that a scientist can investigate through experiments and research Understand that a scientist should ask a question first before they commence their work Make a hypothesis (a temporary scientific explanation) that can be tested Recognise that testing my hypothesis involves a number of steps, through researching, conducting an experiment, calculating, analysing, evaluating reporting and concluding Explain that there are different ways of testing the same hypothesis Design and carry out an investigation to test my hypothesis Indicate the risks involved in carrying out my investigation and describe the steps that can be taken to reduce the risks Listen to the views of other group members when planning out an investigation Follow the safety procedures necessary to avoid any incidents Use the required equipment in a correct manner in the science laboratory 	
Reflecting on my learning	
One thing I did well	
One thing that I might improve	
I really enjoyedbecause	

I can collect Data

Student:

Class:

Science

l can:	
I have begun 🔲 🔲 📙 I am working on this 🔲 🔲 📙 I can	
 This has been demonstrated by my ability to: Understand that all science involves evidence Understand that I must be able to test my hypothesis Describe how I collected data in a reliable and accurate manner when investigating by experiment 	000
 Create a research question from a topic I am researching Reference correctly the work carried out by others State the difference between good and bad sources of information Use my skills to find trustworthy information from many sources Use a variety of sources such as internet, newspapers, scientific journals, books, etc. to find trustworthy information Measure the quantity (or amount) of something and the quality (or kind) of something in my investigations and record these as data Record all results accurately Record results using different methods Record my data in a table 	
Reflecting on my learning	
One thing I did well	
One thing that I might improve	
I really enjoyedbecause	

I can communicate in Science

Student:

Class:

Science

I can:	
I have begun	000
 This has been demonstrated by my ability to: Draw a graph from the data provided Carry out calculations Use the correct units in my answers Organise my data and present my results in a way that is easy to understand Explain what is meant by the term outlier on a graph See a pattern/trend in a graph Check for reliable sources of data within media Present my research investigation with keywords Explain my findings 	
Reflecting on my learning	
One thing I did well	
One thing that I might improve	
I really enjoyedbecause	

I can demonstrate knowledge and understanding

Student:

Class:

Science

l can:	
I have begun 🔲 🔲 I am working on this 🔲 🔲 I can 🔲	00
 List the strengths of an investigation Recognise what I need to change in order to improve my investigation Explain how reliable and accurate my results are Answer questions about my investigation Go over my results and make a conclusion Explain why unusual results such as outliers occur Decide if my hypothesis has/has not been supported in the investigation Understand the work of a scientist Understand that science research and scientific discovery help make the world around me better Form an opinion based on evidence from my research Give research evidence and explain how and why it is suitable Make a connection between the conclusions of my investigation and the world around me Give suitable reasons, based on evidence, to support/justify my opinion 	
Reflecting on my learning	
One thing I did well	
One thing that I might improve	
I really enjoyedbecause	