PDST
Professional Development Service for Teachers | An tSeirbhís um Fhorbairt Ghairmiúil do Mhúinteoirí

Junior Certificate School Programme
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Supporting teachers and students within the Junior Certificate School Programme

Draft Junior Cycle Science Statements

The following pages contain draft JCSP statements 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.

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Science

At Junior Certificate level I can:

STJC1
I can investigate in Science - Draft

STJC2
I can collect Data - Draft

STJC3
I can communicate in Science - Draft

STJC4
I can demonstrate knowledge and understanding - Draft

1 **The Non-Living Environment**
Describe the characteristics and structures of different materials and explain how they change under different conditions

2 **The Living Environment**
Describe a range of plant and animal life and explain their connection with the wider environment

3 **The Human Body**
Describe some of the major systems of the human body and explain their links with health

4 **Energy and Control**
Name sources of energy and describe ways in which energy can be transferred and used

5 **Human Biology**
Describe some of the major systems of the human body and have an understanding of food and health

6 **Physics 1**
Understand the concept of measurement of Force, Energy and Heat

7 **Chemistry 1**
Recognise different substances and carry out separation techniques

8 **Chemistry 2**
Understand some of the key principles of the chemistry of air and water

9 **Plant Biology**
Understand and identify the structure, functions and processes of a typical flowering plant

Work begun | Work in progress | Work completed

Science

At Junior Certificate level I can:

10	**Physics 2** Understand the concepts of magnetism, electrical conduction and the main properties of light	☐☐☐
11	**Chemistry 3** Recognise different substances and carry out separation techniques	☐☐☐
12.	**Chemistry 4** Recognise different substances and carry out separation techniques	☐☐☐
13.	**Chemistry 5** Recognise different substances and carry out separation techniques	☐☐☐
14	**Environmental Biology** Describe a range of plant and animal life and explain their connection with the wider environment	☐☐☐
15	**Human Biology 2** Describe some of the major systems of the human body and explain their links with health	☐☐☐
16	**Human Biology 3** Describe some of the major systems of the human body and explain their links with health	☐☐☐
17	**Human Biology 4** Describe some of the major systems of the human body and explain their links with health	☐☐☐
18	**Plant Biology** Understand and identify the structure, functions and processes of a typical flowering plant	☐☐☐
19	**Physics 3** Understand the concepts of Energy and Energy Conversions	☐☐☐
20	**Physics 4** Understand the concepts of Heat, Light and Sound	☐☐☐
21	**Physics 5** Understand the concepts of Magnetism , Electricity and Electronics	☐☐☐

Work begun ☐☐☐ | Work in progress ☐☐☐ | Work completed ☐☐☐