Oide
Tacú leis an bhFoghlaim Ghairmiúil i measc Ceannairí Scoile agus Múinteoirí
Supporting the Professional Learning of School Leaders and Teachers

Phase 5: Applied Technology Statements 2023/2024

1st Years

- **New** Statements Only

2nd Years

- **New** Statements Only

3rd Years

- **New** Statements

Old statements still accepted

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

Junior Certificate School Programme
Blackrock Education Centre, Kill Avenue, Dún Laoghaire, Co. Dublin
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Supporting teachers and students within the Junior Certificate School Programme

Introductory text for JCSP Statements Supporting The Junior Cycle Applied Technology

The statements below were developed with input from a number of practicing Applied Technology teachers in JCSP schools. They are offered **as one possible model** that teachers may use to approach the new Junior Cycle Applied Technology Specification. They will be adjusted over time based on feedback from teachers in JCSP schools.

The new Applied Technology Specification may be accessed in full at www.curriculumonline.ie.

In addition, support for teaching of the Junior Cycle Specification may be accessed through the Junior Cycle for Teachers (JCT) Technologies team at www.jct.ie.

It is important to note that the statements below offer a sample approach for the creation of Junior Cycle Applied Technology statements. They do not cover all of the learning outcomes which are expected to be taught in the new junior cycle course.

August 2023

An Roinn Oideachais
Department of Education

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Area of Experience
Technology / Applied Technology

Technology / Applied Technology

Student: Name Surname | Class: Class

At Junior Cycle level I can:

Date Commenced: ☐☐/☐☐/☐☐ | Date Awarded: ☐☐/☐☐/☐☐

ATJC1	I can manage myself and my work in Applied Technology	☐☐☐
ATJC2	I understand the role and impact of technology	☐☐☐
ATJC3	I can design, prototype and create final design solutions	☐☐☐
ATJC4	I can create controlled solutions to perform tasks safely and efficiently	☐☐☐

1. **Craft and Materials** ☐☐☐
   Work with materials having practised the basic skills appropriate for assembling finished pieces
2. **Theory** ☐☐☐
   Display basic background knowledge of technology
3. **Technology and Society** ☐☐☐
   Display a basic knowledge of the effects of developments in technology on society
4. **Design Brief** ☐☐☐
   Compile a design brief for a selected technology project

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

I can manage myself and my work in Applied Technology

Applied Technology

Statement Code: ATJC1

Student: Name Surname

Class: Class

I can

I have begun ☐☐☐ | I am working on this ☐☐☐ | I can ☐☐☐

This has been demonstrated by my ability to:

1.	Be on time for my Applied Technology class	☐	☐ ☐
2.	Have all my materials with me for my Applied Technology class	☐	☐ ☐
3.	Follow the rules of the Applied Technology classroom	☐	☐ ☐
4.	Work safely when using hand tools	☐	☐ ☐
5.	Use machinery correctly and in a safe manner	☐	☐ ☐
6.	Write three personal targets to help me in my Applied Technology class	☐	☐ ☐
7.	Create a storyboard showing the steps of how I made a project from start to finish	☐	☐ ☐
8.	Discuss at least 3 skills I used in completing a project	☐	☐ ☐
9.	Reflect on my work in my Applied Technology class	☐	☐ ☐
10.	Work with my teacher and other students in a positive and respectful manner	☐	☐ ☐

Reflecting on my learning...

One thing I did well... Text Here

Text Here

One thing I did to improve... Text Here

Text Here

I really enjoyed... Text Here because... Text Here

Text Here

I understand the role and impact of technology

Applied Technology

Statement Code: ATJC2

Student: Name Surname

Class: Class

I can

I have begun ☐☐☐ | I am working on this ☐☐☐ | I can ☐☐☐

This has been demonstrated by my ability to:

1.	Break down a problem into steps	☐	☐ ☐
2.	Carry out both primary and secondary research	☐	☐ ☐
3.	List two areas where technology plays an important role in your local community	☐	☐ ☐
4.	Discuss how technology can solve problems	☐	☐ ☐
5.	Give an example of how technology has changed a product	☐	☐ ☐
6.	Give an example of how technology has made an impact on a manufacturing process	☐	☐ ☐
7.	List three ways how technology has helped to reduce waste	☐	☐ ☐
8.	Discuss positive and negative impacts of technology	☐	☐ ☐
9.	List two examples of renewable energy sources	☐	☐ ☐
10.	Identify two energy saving devices that could be used in a school	☐	☐ ☐

Reflecting on my learning...

One thing I did well... Text Here

Text Here

One thing I did to improve... Text Here

Text Here

I really enjoyed... Text Here because... Text Here

Text Here

I can design, prototype and create final design solutions

Applied Technology

Statement Code: ATJC3

Student: Name Surname

Class: Class

I can

I have begun ☐☐☐ | I am working on this ☐☐☐ | I can ☐☐☐

This has been demonstrated by my ability to:

1.	Sketch a solution to include measurements	☐	☐ ☐
2.	Use annotations to explain my design	☐	☐ ☐
3.	Create a prototype	☐	☐ ☐
4.	Prepare a cutting list	☐	☐ ☐
5.	Create a project plan to help keep me on track	☐	☐ ☐
6.	Select suitable equipment to perform a task	☐	☐ ☐
7.	Select suitable processes to perform a task	☐	☐ ☐
8.	Pay attention to detail when finishing a project	☐	☐ ☐
9.	List three things that were difficult during the design and making of a project	☐	☐ ☐
10.	List three things that you would do differently if you were to make the project again	☐	☐ ☐

Reflecting on my learning...

One thing I did well... Text Here

Text Here

One thing I did to improve... Text Here

Text Here

I really enjoyed... Text Here because... Text Here

Text Here

I can create controlled solutions to perform tasks safely and efficiently

Applied Technology

Statement Code: ATJC4

Student: Name Surname

Class: Class

I can

I have begun ☐☐☐ | I am working on this ☐☐☐ | I can ☐☐☐

This has been demonstrated by my ability to:

1.	Draw simple circuit diagrams	☐	☐ ☐
2.	Represent at least three components using their symbols	☐	☐ ☐
3.	Follow safety procedures when soldering	☐	☐ ☐
4.	Discuss how energy is converted from one form to another	☐	☐ ☐
5.	Describe how an input transforms into an output	☐	☐ ☐
6.	Test my circuit design	☐	☐ ☐
7.	Design a circuit using digital software	☐	☐ ☐
8.	List three different mechanisms and state where they could be used	☐	☐ ☐
9.	Create a control solution to solve a problem	☐	☐ ☐
10.	Find a fault in a circuit	☐	☐ ☐

Reflecting on my learning...

One thing I did well... Text Here

Text Here

One thing I did to improve... Text Here

Text Here

I really enjoyed... Text Here because... Text Here

Text Here

Craft and Materials

Technology

Statement Code no: 1

Student: Name Surname

Class: Class

At Junior Certificate level the student can:

Work with materials having practised the basic skills appropriate for assembling finished pieces

Date Commenced: ☐☐/☐☐/☐☐ Date Awarded: ☐☐/☐☐/☐☐

Learning Targets - This has been demonstrated by your ability to:

1	Follow basic technology room rules	☐☐☐
2	Understand the reasons for safety procedures	☐☐☐
3	Understand and follow safety procedures	☐☐☐
4	Understand and be able to make basic drawings, for example, orthographic, isometric and oblique	☐☐☐
5	Measure and mark out the material, using the appropriate tools and measuring instruments	☐☐☐
6	Design and cut out simple shapes	☐☐☐
7	Display manual dexterity through assembly	☐☐☐
8	Produce a simple piece of work	☐☐☐
9	Produce your own simple solution to a basic technology working problem	☐☐☐
10	Understand the uses of joints	☐☐☐
11	List the steps needed to make a simple object	☐☐☐
12	Examine the finished item you have made and identify the improvements that could be made	☐☐☐

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Materials Technology: Wood, Science

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

Theory

Technology

Statement Code no: 2

Student: Name Surname

Class: Class

At Junior Certificate level the student can:

Display basic background knowledge of technology

Date Commenced: ▢▢/▢▢/▢▢

Date Awarded: ▢▢/▢▢/▢▢

Learning Targets - This has been demonstrated by your ability to:

1	Recognise forms of energy, for example, mechanical, chemical, electrical etc.	▢ ▢ ▢
2	Recognise devices that convert energy from one form to another	▢ ▢ ▢
3	Learn the units of energy and power	▢ ▢ ▢
4	Understand structures that maintain shape under load	▢ ▢ ▢
5	Display an understanding of the use of mechanisms	▢ ▢ ▢
6	Display an understanding of basic electric circuits, for example, lamp circuit	▢ ▢ ▢
7	Understand the uses of simple electronic systems	▢ ▢ ▢
8	Understand the basic uses of pneumatics	▢ ▢ ▢
9	Understand the basic uses of robotics	▢ ▢ ▢

Refer also to: English, Art, Maths, Science, Materials Technology: Metal, Technical Graphics, Materials Technology: Wood,

Work begun ▢ ▢ ▢ | Work in progress ▢ ▢ ▢ | Work completed ▢ ▢ ▢

Technology and Society

Technology

Statement Code no: 3

Student: Name Surname

Class: Class

At Junior Certificate level the student can:

Display a basic knowledge of the effects of developments in technology on society

Date Commenced: ▢▢/▢▢/▢▢ Date Awarded: ▢▢/▢▢/▢▢

Learning Targets: Select any 5 objectives to work on

– This has been demonstrated by your ability to:

1 **A brief history of technological developments since the Industrial Revolution** ▢▢▢

(a) State the differences between technology now and during the time of the Industrial Revolution

(b) Identify one advantage and one disadvantage of these changes to today's society

2 **The effects on the environment of technological development** ▢▢▢

(a) State two positive effects of technological development on the environment

(b) State two negative effects of technological development on the environment

3 **Technology and Agriculture** ▢▢▢

(a) List two machines used in agriculture today

(b) List two positive and two negative effects of technology on agriculture

4 **Technology and Social and Cultural Development** ▢▢▢

(a) List two effects technology has had on social and cultural development

(b) Identify two advantages and two disadvantages technology has had on social and cultural development

5 **Technology and Labour** ▢▢▢

(a) List two effects technology has had on labour

(b) Identify two advantages and two disadvantages of these effects

Work begun ▢▢▢ | Work in progress ▢▢▢ | Work completed ▢▢▢

Technology and Society

Technology

Statement Code no: 3

Student: Name Surname

Class: Class

At Junior Certificate level the student can:

Display a basic knowledge of the effects of developments in technology on society

Date Commenced: ☐☐/☐☐/☐☐ Date Awarded: ☐☐/☐☐/☐☐

Learning Targets: Select any 5 objectives to work on

– This has been demonstrated by your ability to:

6 The technology gap between the first and third worlds ☐☐☐

(a) List two differences between technology in the first and third worlds

(b) Identify two advantages and two disadvantages of technological developments in the first and third worlds

7 Technology and Industry ☐☐☐

(a) List two aspects of technology in industry

(b) Identify two advantages and two disadvantages of technology for industry

8 Technology in the Home ☐☐☐

(a) List two aspects of technology in the home

(b) Identify two advantages and two disadvantages of technology in the home

9 Food Technology ☐☐☐

(a) List two aspects of food technology

(b) Identify two advantages and two disadvantages of food technology

10 An aspect of the history of design ☐☐☐

(a) In the case of two products, identify the design changes that have occurred over the years

(b) Identify two advantages and two disadvantages of these changes on the products

Refer also to: English, Art, Maths, Materials Technology: Metal, Materials Technology: Wood, Technical Graphics, Science

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

Design Brief

Technology

Statement Code no: 4

Student: Name Surname

Class: Class

At Junior Certificate level the student can:

Compile a design brief for a selected technology project

Date Commenced: ▢▢/▢▢/▢▢

Date Awarded: ▢▢/▢▢/▢▢

Learning Targets - This has been demonstrated by your ability to:

1	Give two reasons for your choice of project from the given selection	▢ ▢ ▢
2	Design three pieces and choose one, giving reasons for your choice	▢ ▢ ▢
3	Draw a schematic drawing for each piece of your chosen project	▢ ▢ ▢
4	List the materials for cutting	▢ ▢ ▢
5	Record each piece	▢ ▢ ▢
6	Record the work process involved	▢ ▢ ▢
7	Record the process involved in assembling the pieces of the project	▢ ▢ ▢
8	Identify faults in the design, if any	▢ ▢ ▢
9	Identify difficulties you have come across in designing, making and assembling your project	▢ ▢ ▢

Refer also to: English, Art, Maths, Materials Technology: Metal, Technical Graphics, Science

Work begun ▢ ▢ ▢ | Work in progress ■ ■ ▢ | Work completed ■ ■ ■