

Dette er ei omsetjing av den fastsette læreplanteksten. Læreplanen er fastsett på Nynorsk

Laid down as a regulation by the Ministry of Education and Research on 8 June 2012.

Valid from 01.08.2012

Valid to 31.07.2020



Utdanningsdirektoratet

Purpose

Elective subjects shall help pupils develop a desire to learn and experience a sense of mastery, individually and as a group, through practical and varied work. Elective subjects are interdisciplinary subjects that contribute to comprehensive and contextual learning.

Technology deals with the man-made world and about contrivances and systems that make everyday life easier and better. Throughout history humans have used their creative powers to develop tools, machines and other technological products and solutions. Technology has its place in many aspects of life. It has provided and continues to provide opportunities and challenges for individuals and society. Technology includes the simplest of tools and products to the most complicated and advanced electronics. Experience with and insight into technology is an aid in personal development and participation in democracy, and can contribute to our developing an active relationship to technology in everyday life.

Learning in the elective subject of Technology in Practice will motivate pupils to develop technological products with a point of departure in the needs and problems of their community. The process from idea generation to completing a finished product can help pupils learn to enjoy the creative process and provide them with an experience of mastery. The pupils shall be able to develop skills and insight through individual work and by cooperating with others. This involves exploring their own talents and testing the opportunities of the different stages in the process, and learning to evaluate processes and products and accepting feedback from others.

The elective subject deals with planning, constructing and presenting objects and products made from different materials and based on various technological solutions. Knowledge about technological products used in everyday life form an excellent basis for improving existing products and for developing new ones.

The elective subject takes its main elements from subjects like Mathematics, Natural Science, Fine Art and Arts & Crafts/Duodji. Certain elements from the subjects Norwegian/Sami, Religion/Philosophy/Ethics and Social Science may also be included in the elective.

Main subject areas

The elective subject is structured in two main subject areas. The main subject areas complement each other, and should be viewed in relation to one another.

Overview of the main subject areas:

The main subject areas	
Investigations	Idea Generation and Production

The main subject area deals with how technological products are constructed and function, what kinds of processes are included in their development and use, and what needs the product will satisfy. Development, construction and production of technology are included in the main subject area, in addition to Environment, Health and Safety (EHS). Knowledge about how technology is based on some basic scientific principles and how new technology is based on previous knowledge and experience is also a part of the main subject area.

The main subject area covers planning, presenting and testing one's own products and constructions. Planning how to present one's own products and constructions and have them tested is based on the use of specification requirements.

Knowledge of the designs and functionalities of other products is very important during the developmental phase. Discussions about the different aspects of a product production will be important during all phases of product development and can also contribute to improving processes and the product itself.

Teaching hours

The elective subject of Technology in Practice: 57 teaching hours per year

Teaching hours are given in 60-minute units.

Basic skills

Basic skills are integrated into the competence aims for the subject, based on the specific needs of that subject.

Competence aims

Investigations

The aims of the studies are to enable pupils to

- investigate technological products and consider the choices one makes about product use, technical solutions, functionality and design
- demonstrate the correct use of selected tools
- evaluate technological products based on user adaption, EHS requirements and environmental adaptations

Idea Generation and Production

The aims of the studies are to enable pupils to

- develop a realistic set of specification requirements for a technological product and describe what needs the product will satisfy
- present a product based on one's own selection of materials, components and functional technological solutions
- use knowledge about other products when working on one's own product
- test one's own product and make suggestions for improvements

Assessment

Provisions for final assessment:

Overall achievement mark

Year level	Provisions
10th year level or the year in which the subject is completed	The pupils shall receive an overall achievement mark

Examination for pupils

Year level	Provisions
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10th year level or the year in which the subject is completed	There is no examination in the subject
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Examination for external candidates

Year level	Provisions
10th year level or the year in which the subject is completed	There are no arrangements for participation by external candidates in the subject

The provisions for assessment are stipulated in the regulations of the Norwegian Education Act.