

GROUP 7: TECHNOLOGY

DESIGN TECHNOLOGY & COMPUTER TECHNOLOGY

AIMS

The aims of the teaching and study of technology are to encourage and enable students to:

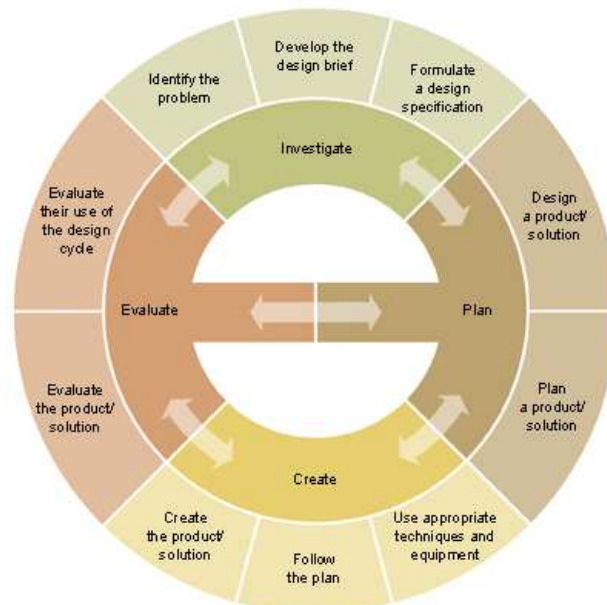
- develop an appreciation of the significance of technology for life, society and the environment
- use knowledge, skills and techniques to create products/solutions of appropriate quality
- develop problem-solving, critical- and creative-thinking skills through the application of the design cycle
- develop respect for others' viewpoints and appreciate alternative solutions to problems
- use and apply information and communication technology (ICT) effectively as a means to access, process and communicate information, and to solve problems.

OBJECTIVES

At the end of the course, they should be able to:

- identify the problem to be solved
- develop the design brief
- formulate a design specification
- design the product/solution
- plan the product/solution
- use appropriate techniques and equipment
- follow the plan
- create the product/solution
- evaluate the product/solution
- evaluate their use of the design cycle
- work effectively as members of a team, collaborating, acknowledging and supporting the views of others
- provide evidence of personal engagement with the subject (motivation, independence, general positive attitude) when working in technology

THE DESIGN CYCLE



COMPUTER TECHNOLOGY: A technology course that uses the design cycle to solve problems through the use of a computer system. Computer technology enables students to create computer-generated products/solutions to perform a task or meet a need.

DESIGN TECHNOLOGY: A technology course that uses the design cycle to solve problems through the use of tools, materials and systems. Design technology enables students to develop a variety of skills and to try out materials such as paper, wood, leather, plastic, ceramic when creating various products.