


SCOPE & SEQUENCE
GR. 4 – SCIENCE

Student Task

GRADE 4: Science

STRAND: Waste and Our World

TASK: Flowchart Depicting the Life Cycle of a Product

PRODUCTIVITY TOOL: Word Processor or Mind Mapping Tool

TIMELINE: 4-6 Classes

LEVEL OF DIFFICULTY: Project

All products have a life cycle. At some point, they begin as natural resources, are extracted from the environment and processed into a useful project.

The students will create a flowchart describing the life cycle of a product. They will also add information on how the product is disposed of, reused or recycled.



ICT Outcomes

The learner will:

- C1** 2.2 organize information gathered from the Internet, or an electronic source, by selecting, and recording the data in logical files or categories; and by communicating effectively, through appropriate forms, such as speeches, reports, and multimedia presentations, applying information technologies that serve particular audiences and purposes
- C6** 2.1 select and use technology to assist in problem-solving
- 2.3 use graphic organizers, such as mind mapping/webbing, flow charting and outlining, to represent connections among ideas and information in a problem-solving environment
- 2.7 generate alternative solutions to problems by using technology to facilitate the process
- C7** 2.1 use a variety of technologies to organize and synthesize researched information
- 2.2 use selected presentation tools to demonstrate connections among various pieces of information
- F1** 2.1 apply terminology appropriate to the technologies being used at this division level
- 2.2 identify and apply techniques and tools for communicating, storing, retrieving, and selecting information
- F2** 2.3 examine environmental issues related to the use of technology
- F4** 2.1 recognize that graphics, video and sound enhance communication
- 2.2 describe how the use of various texts and graphics can alter perception
- 2.3 discuss how technology can be used to create special effects and/or to manipulate intent through the use of images and sound
- F6** 2.3 use peripherals, including printers and scanners
- P4** 2.2 vary font size and font style, and placement of text and graphics, in order to create a certain visual effect





Curriculum Outcomes

GRADE 4: Science

TOPIC A: Waste and Our World

TASK: Flowchart Depicting the Life Cycle of a Product

General Learner Expectations

4-5 recognize that human activity can lead to the production of wastes, and identify alternatives for the responsible use and disposal of materials

Specific Learner Expectations

The student will:

8. Identify alternative materials and processes that may decrease the amount of waste produced; e.g. reducing waste of food, using both sides of a sheet of paper
9. Identify ways in which materials can be reused or recycled, including examples of things that the student has done
10. Develop a flow chart for a consumer product that indicates the source materials, final product, its use and method of disposal
11. Identify actions that individuals and groups can take to minimize the production of wastes, to recycle or reuse wastes and to ensure the safe handling and disposal of wastes

