

OVERVIEW OF THE TASK

My animated object

Target audience:	2nd cycle
Type of work:	Group and individual
Class time required:	About 5 hours

Educational Aim

The learning situation aims at acquiring the vocabulary related to the mechanics of objects from everyday life. It encourages the identification of the mechanical parts in objects that surround us. It also aims to initiate the students to diagramming an idea through the design of a cam and roller type mechanism.

Targeted disciplinary competencies:

- ❑ C-1 To propose explanations for or solutions to scientific or technological problems.
- ❑ C-2 To make the most of scientific and technological tools, objects and procedures.
- ❑ C3 To communicate in the languages used in science and technology.

Targeted cross-curricular competencies:

- ❑ To solve problems
- ❑ To adopt effective work methods

Broad area of learning	Environment and consumption - Awareness of one's surroundings
Involved world	Material world
Essential knowledge	• Function of manufactured objects • Simple machines • Use of tools • Design and fabrication of models • Terminology relating to mechanics • Drawings (diagramming)
Strategies	**Exploration strategies** Diagramming or illustrating the problem Resort to empirical steps (touching, analysis, exploration using the senses) **Instrumentation strategies** Resort to technical drawing to illustrate a solution Resort to varied observation techniques and tools

Possible evaluation criteria:

- ❑ Use of a process appropriate to the nature of the problem, or situation
- ❑ Elaboration of pertinent explanations or realistic solutions
- ❑ Association of instruments, tools and techniques to the appropriate uses
- ❑ Appropriate use of instruments, tools or techniques
- ❑ Understanding of the information of a scientific and technological nature
- ❑ Correct transmission of the information of scientific and technological nature

Global context:

Starting from a story, the students have to animate an object that they will use during a reading session to children in kindergarten.