

## Technology

### General comments about the subject

The objective of our technology program is to guide each student toward self-discovery through the progress of problem-solving. This is achieved through hands-on learning. Throughout the four year program, students will be introduced to the technological aspects of environmental design, mechanical and electronic techniques and product design. Further development of a sense of the importance of technology in our everyday lives is structured according to the needs of individual classes. Learning by doing is the main teaching method that is used.

- Students will have a basic understanding of and respect for materials.
- Workpieces will require head- and handwork. Students will develop the ability to their design ideas into concrete workable form.
- Technology projects require cross-curricular thinking and develop the student's ability to apply knowledge from related subjects such as Chemistry, Physics, Mathematics and Visual Arts.

## Year 1 (2 units)

- Material literacy: paper, cardboard, glue, wood, wool, clay, ...
- Technical literacy: cutting, folding, glueing, combining, sawing, connecting, drilling, filing, rasping, sanding, ...
- Design literacy: functional and aesthetic aspects

## Year 2 (2 units)

- Material literacy: from 2D-plans to 3D-forms (measurements, proportions, connections, constructions)
- Model planning (appropriate scales environmental-and safety issues)
- Understanding plans and explanations, developing plans and elevations
- Material and technical literacy:
  - choice of appropriate materials and techniques
  - constructing simple machines
  - understanding the concept and the importance of a design specification
  - listing the requirements that must be met by the solution
- Cultural literacy: getting to know examples of different cultures and times

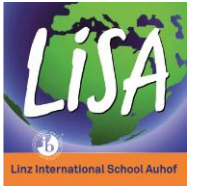
### **Year 3 (1 unit LISA language/2 units LISA economy)**

- Design literacy: drawing detailed architectural plans (interdependencies of form and function), environmental solutions and their effect on people's well-being
  - model-building
  - formulating a design specification
  - planning and constructing individual projects

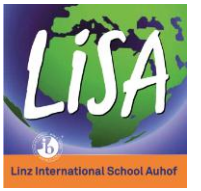
## Year 4 (1 unit)

- Individual projects, working as independently as possible (choice of materials, tools, techniques...) guided by the teacher

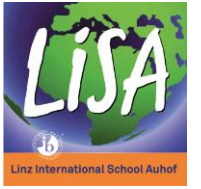
**Year 5**



**Year 6**



**Year 7**





**Year 8**

