

## **BIOLOGY**

### Nature and ecosystems

- identification of the main species of plants, fungi, and animals; guided collection of plants
- the ecosystem and its structure and operation; distinctive features of forest and aquatic ecosystems; independent research on the ecosystem
- introduction to the forestry and crop husbandry
- biodiversity

### Life and evolution

- structure and activity of the cell ( basic of cell biology)
- emergence, development and organization of a population
- biological and cultural evolution of the human being; distinctive features of the human species
- potentials of biotechnology; related ethical questions

### The human being

- structure and the main vital functions of the human being (basic human anatomy/ physiology)
- human sexuality and reproduction
- importance of genotype and the environment in the development of human characteristics (basics of genetics)

### The common environment

- ecologically sustainable development and the substance and objectives of environmental protection
  - investigating the status of and changes in one's living environment; examining measures to improve the status of one's immediate environment; weighing one's environmental behaviour
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- analyze graphs and figures
  - do simple calculation from data