

## **Maturitní okruhy z předmětu**

### **MIKROBIOLOGIE**

**Školní rok: 2021/2022**

**Obor: Přírodovědné lyceum**

**ŠVP: Věda a výzkum**

- 1) The chemicals of life
- 2) DNA and protein synthesis
- 3) Defence against pathogenic microorganisms
- 4) Viruses: structure, function and multiplication
- 5) The bacteriophage and a process of infection by it
- 6) Diseases caused by viruses, viroids and prions
- 7) A structure of a prokaryotic cell
- 8) Bacteria: shapes of their cells, motion, reproduction, growth of a bacterial population
- 9) Bacteria: metabolism
- 10) Cyanobacteria and Archea
- 11) Gram-negative bacteria
- 12) Gram-positive and wall-less bacteria
- 13) Bacteria: normal flora of a human body, ways of transmitting bacteria
- 14) Diseases caused by bacteria
- 15) Nutrient cycles
- 16) Bacterial genetics and antibiotics
- 17) Industrial using of bacteria
- 18) Transgenic bacteria and their use
- 19) A structure of a eukaryotic cell
- 20) Algae
- 21) Fungi: basic biology, classification
- 22) Yeasts and their use
- 23) Multicellular microscopic fungi
- 24) Protozoa
- 25) Multicellular microscopic animals
- 26) Parasitology