

Biology Grades 5 through 12

Biology is taught in English and German. In grades 5 and 6, about 30% of the instruction is in English, 50% in grades 7 through 12. Instruction in English is marked with *.

Grade 5

Content

Introduction to Biology/vertebrates in their habitat (mammals, birds, reptiles, amphibians, fish*): body, adaptations, importance for humans, protection

Student Manual: Biosphäre 1 (Publisher Cornelsen)

Grade 6

Content

Classes of vertebrates: comparison/ invertebrates: body, adaptations, importance for humans/ blind plants/ seed-bearing plants: structure and function*/ plant and animal communities*

Student Manual: Biosphäre 1 (Publisher Cornelsen)

Grade 7

Content

Cells as building blocks of organisms: structure of plant and animal cells*/photosynthesis and cellular respiration /bacteria, viruses, fungi/invertebrates in their habitat/human metabolism: blood and blood circulation*

Student Manual: Biosphäre 2 (Publisher Cornelsen)

Grade 8

Content

Human metabolism: diet and digestion*/ Human metabolism: respiration/ procreation, development, sexuality/senses and nerves*

Student Manual: Biosphäre 2 (Publisher Cornelsen)

Grade 9

Content

Classical and human genetics*/ecology

Student Manual: Biosphäre 3 (Publisher Cornelsen)

Grade 10

Content

Immune system/hormones/evolution*

Student Manual: Biosphäre 3 (Publisher Cornelsen)

Grade 11

Content

Structure and function of cells*/bio membranes*/molecular genetics*/autotrophy, heterotrophy, energy budgets in green plants, animals and humans: photosynthesis and cell respiration/enzymes as biocatalysts/molecular genetics*

Student Manual: Biologie. Oberstufe (Publisher Cornelsen)

Grade 12

Content

Ecology/evolution/neurobiology*/ethology (after the written Abitur examination)

Student Manual: Biologie. Oberstufe (Publisher Cornelsen)

Annotation: In grade 10, the units marked * should be taught in English. In grades 11 and 12, they must be taught in English.