

Biology Curriculum Map 2015-2016

Biology Semester A

How do organisms live, grow, respond to their environment, and reproduce?

Unit 1: How do the structures of organisms enable life's functions?

LS 1-1, LS 1-2, LS 1-3

Unit 2: How do organisms grow and develop?

LS 1-4

Unit 3: How do organisms obtain and use the matter and energy they need to live and grow?

LS 1-5, LS 1-6, LS 1-7

(ESS 2-5 can be covered in multiple units)

How and why do organisms interact with their environment and what are the effects of these interactions?

Unit 4: How do organisms interact with living and non-living environments to obtain matter and energy?

LS 2-1, LS 2-2

Unit 5: How do matter and energy move through an ecosystem?

LS 2-3, LS 2-4, LS 2-5, ESS 2-6

Unit 6: What happens to ecosystems when the environment changes?

LS 2-6, LS 2-7, LS 2-2, ESS 3-1

Unit 7: How do organisms interact in groups to benefit individuals?

LS 2-8

Biology Semester B

How are characteristics of one generation passed to the next?

How can individuals of the same species and even siblings have different characteristics?

Unit 8: How are the characteristics of one generation related to the previous generation?

LS 3-1, LS 1-1

Unit 9: Why do individuals of the same species vary in how they look, function, and behave?

LS 3-2, LS 3-3

(do not need to know the phases of Meiosis)

How can there be so many similarities among organisms yet so many different kinds of plants, animals, and microorganisms?

How does biodiversity affect humans?

Unit 10: What evidence shows that different species are related?

LS 4-1, ESS 2-7

Unit 11: How does genetic variation among organisms affect survival and reproduction?

LS 4-2, LS 4-3

Unit 12: How does the environment influence populations of organisms over multiple generations?

LS 4-2, LS 4-3, LS 4-4, LS 4-5, LS 4-6

Unit 13: What is biodiversity, how do humans affect it, and how does it affect humans?

LS 4-6, LS 2-7