

Bug Bites



3RD GRADE – ADULT

45 MINUTES

Discover the world of bug-eating, where culinary traditions meet sustainable practices that can reshape the future — plus, get the chance to try a bug yourself.

LEARNING OBJECTIVES

AWARENESS

Learners develop awareness of cultural food practices around the world, broadening their understanding of diverse food traditions.

COMPASSION & EMPATHY

Learners practice an open-minded approach to, and respect for, diverse culinary practices.

EMPOWERMENT

Learners are empowered to advocate for sustainable food choices by understanding and communicating the potential benefits of insect-based foods.

MISCONCEPTION WE ADDRESS

That bugs are gross and not edible.

CURRICULUM STANDARDS SUPPORTED

COLORADO ACADEMIC STANDARDS (2020) & NGSS

SC.3.2.2

STANDARD 6

Being part of a group helps animals obtain food, defend themselves and cope with changes.

3-LS2-1 Construct an argument that some animals form groups that help members survive.

SC.3.2.5**STANDARD 8**

Sometimes differences in characteristics between individuals of the same species provide advantages in survival and reproduction.

3-LS4-3 Construct an argument with evidence that in a particular habitat some organisms can survive well, some survive less well, and some cannot survive at all.

3-LS4-4 Make a claim about the merit of a solution to a problem caused when the environment changes and the types of plants and animals that live there may change.

SC.4.2.1**STANDARD 5**

Organisms have both internal and external structures that serve various functions.

4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior and reproduction.

SC.5.2.2**STANDARD 6**

Matter cycles between air and soil and among plants, animals and microbes as these organisms live and die.

5-LS2-1 Develop a model to describe the movement of matter among plants, animals, decomposers and the environment.

SC.MS.2.3**STANDARD 5**

Sustaining life requires substantial energy and matter inputs.

MS-LS1-6 Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.

MS-LS1-7 Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.

SC.MS.2.5**STANDARD 6**

Organisms and populations of organisms are dependent on their environmental interactions, both with other living things and with nonliving factors.

MS-LS2-1 Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.

MS-LS2-2 Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.

SC.MS.2.12**STANDARD 8**

Biodiversity is the wide range of existing life forms that have adapted to the variety of conditions on Earth, from terrestrial to marine ecosystems.

MS-LS2-5 Evaluate competing design solutions for maintaining biodiversity

and ecosystem services.

SC.HS.2.13
STANDARD 8

Humans have complex interactions with ecosystems and have the ability to influence biodiversity on the planet.

HS-LS2-6 Evaluate the claims, evidence and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.

HS-LS2-7 Design, evaluate and refine a solution for reducing the impacts of human activities on the environment and biodiversity.

SC.HS.3.9
STANDARD 11

Resource availability has guided the development of human society, and use of natural resources has associated costs, risks and benefits.

SC.HS.3.11
STANDARD 11

Sustainability of human societies and the biodiversity that supports them requires responsible management of natural resources, including the development of technologies.

NEXT STEPS

Request a program

Tell us your grade level, group size, preferred dates and site address, and our team will confirm availability and send a program agreement. If cost is a barrier for your school or site, ask about partial scholarships when you inquire — we would rather find a way than turn a group away.

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Standards citations reflect the 2020 Colorado Academic Standards in Science as published by the Colorado Department of Education. Butterfly Pavilion is a 501(c)(3) nonprofit organization accredited by the Association of Zoos and Aquariums.