



ATTENTION EDUCATORS!

Bugs Below Zero has many resources for your classroom curriculum

Click the underlined terms for direct links or visit

<https://www.bugsbelowzero.com/>

VIDEOS AND PODCASTS

Presentations

- What is a Food Web?
- Aquatic Insect Lifecycles
- Winter Stream Food Webs

Videos

- [Dynamics of Winter Trout Feeding](#)
- [Introduction to Stream Environment](#)
- [Exploring Winter Active Insects at Valley Creek](#)

Podcasts

- Stoneflies
- Dragonflies and Damselflies
- Caddisflies

Insect Videos

- Collectors and Gatherers
- Predators
- Scrapers
- Shredders
- Stream Food webs

HANDOUTS & COLORING SHEETS

Handouts

- BBZ Brochure
- BBZ Half sheet handout- general
- BBZ Flyer food webs handout
- BBZ Half sheet handout- educators
- BBZ Flyer- general

Coloring sheets

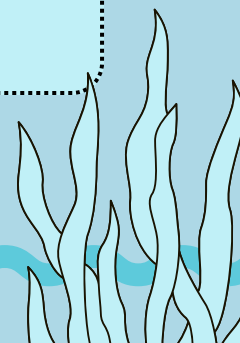
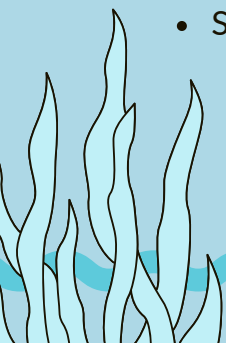
- [Adult Caddisfly](#)
- [Glossosoma Caddisfly](#)
- [Helicopsychidae Caddisfly](#)

Aquatic Insect identification guide

Food Web Activity

- [Activity Board](#)
- [Instructions](#)
- [Activity Cards](#)
- [Answer Key](#)

ADDITIONAL WEB RESOURCES



LESSON PLANS & WORKSHEETS

HIGH SCHOOL & UNDERGRADUATE

- [Activities using BBZ data](#)
- [Longevity Data Analysis Activity](#)
- [Electivity index Data Analysis Activity](#)
- [Articles to Support Activities](#)

K-8 CLASSROOMS

- [Outdoor Ethogram Observation Activity](#)
- [Macro Mania Activity](#)

ADDITIONAL LESSONS

An Introduction to Wet Bugs Video Lesson

- [Video](#)
- [Lesson plan guide](#)

A Lesson on the Stonefly

- [Video](#)
- [Lesson plan guide](#)

A Lesson on the Stonefly

- [Video](#)
- [Lesson plan guide](#)

A Lesson on the Mayfly

- [Video](#)
- [Lesson plan guide](#)

A Lesson on the Hellgrammite

- [Video](#)
- [Lesson plan guide](#)

A Lesson on the Caddisfly

- [Video](#)
- [Lesson plan guide](#)

Worksheet Answer Keys

Application Activities

- A Virtual Q and A Session with the Chironomidae Research Group at the University of Minnesota
- A Competitive Game Show with Midge Trivia!

The University of Minnesota Bugs Below Zero project aims to research and raise awareness of winter active aquatic insects. It consists of an interdisciplinary team of experts and is funded by the Minnesota Environmental & Natural Resources Trust Fund (ENRTF).



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