

## Rubrics

### Level 4

- Student can accurately describe an invertebrate and an arthropod and can list at least four characteristics of insects.
- Student can describe what aquatic macroinvertebrates are, understands that some are pollution tolerant and some are pollution intolerant species, and can describe how this is related to assessment of stream health.
- Student understands the differences between complete and incomplete metamorphosis and can list the different stages of each life cycle.
- Student understands that aquatic microorganisms can be both beneficial and harmful to humans and can list several benefits and problems they cause.

### Level 3

- Student can accurately describe an invertebrate and an arthropod and can list at least three characteristics of insects.
- Student can describe what aquatic macroinvertebrates are and understands that diversity of these organisms is an indicator of stream health (without necessarily knowing why).
- Student understands the differences between complete and incomplete metamorphosis and can list some of the stages of each life cycle.
- Student understands that aquatic microorganisms can be both beneficial and harmful to humans and can list at least one benefit and one problem they cause.

### Level 2

- Student has difficulty describing either invertebrates or arthropods and can list at least two characteristics of insects.
- Student has a slightly inaccurate definition for aquatic macroinvertebrates and does not realize that diversity of these organisms can indicate stream health.
- Student understands metamorphosis but not the differences between complete and incomplete metamorphosis and has trouble listing the different stages of each life cycle.
- Student understands that aquatic microorganisms can be both beneficial and harmful to humans and can list at least one problem they cause, but cannot list any benefits they provide.

### Level 1

- Student has difficulty describing either invertebrates or arthropods and has difficulty listing characteristics or examples of insects with accuracy.
- Student has an inaccurate definition for aquatic macroinvertebrates and does not understand how their assessment can relate to stream health.
- Student does not understand metamorphosis or the different stages in the life cycle
- Student understands that microorganisms live in water, but does not understand how they affect humans.