



Biology Toolkit: Indicator 3.2.2

Student Handout: Biology: Indicator 3.2.2

Goal 3.0 Concepts Of Biology

Expectation 3.2 The student will demonstrate an understanding that all organisms are composed of cells which can function independently or as part of multicellular organisms.

Indicator 3.2.2 The student will conclude that cells exist within a narrow range of environmental conditions and changes to that environment, either naturally occurring or induced, may cause changes in the metabolic activity of the cell or organism.

Assessment Limits:

- pH
- temperature
- light
- water
- oxygen
- carbon dioxide
- radiation (role in cancer or mutations)
- toxic substances (natural, synthetic)

Public Release - Selected Response Item - Released in 2009

Biology Indicator 3.2.2

Depending on the environmental conditions, *Euglena*, a unicellular protist, can act as either a producer or a consumer. *Euglena* will most likely act as a consumer when placed in which of these environments?

- A. cool
- B. acidic
- C. low-oxygen
- D. no-light

Correct Answer

- D. no-light

Item

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