

The science of biology

BIO

Name Class Date



When onion cells are observed with a compound light microscope, which laboratory technique is used to make the nucleus more visible?

- A centrifugation
- **B** chromatography
- **C** microdissection
- **D** staining



Which **term** is defined as all the **chemical reactions** that are required to sustain life?

- A metabolism
- **B** regulation
- C nutrition
- **D** synthesis



5

When preparing a wet mount of onion cells, a student put a drop of Lugol's iodine solution on the slide. Lugol's iodine solution was applied in order to



Cytoplasm consists chiefly of which compound?

- A cellulose
- **B** carbon dioxide





PREVIEW



Please <u>Sign In</u> or <u>Sign Up</u> to download the printable version of this worksheet

- A lipids
- **B** fatty acids
- C simple sugars
- D amino acids

- A larger and brighter
- **B** smaller and brighter
- C larger and darker
- D smaller and darker





What is a major distinction between living and nonliving matter?

- A Living matter is unable to diffuse materials
- **B** Living matter is able to control chemical activities with organic catalysts
- C Living matter is able to create energy
- D Living matter is unable to use energy for metabolic activities.



Energy stored in organic molecules is passed from producers to consumers.

This statement best describes an event in

- A the process of photosynthesis
- B natural selection
- C a food chain
- D ecological succession





The science of biology - Answer Key

BIO

Name Class Date When onion cells are observed with a Which term is defined as all the chemical compound light microscope, which reactions that are required to sustain life? laboratory technique is used to make A metabolism the nucleus more visible? **B** regulation D A centrifugation C nutrition **B** chromatography **D** synthesis **C** microdissection **D** staining 3 When preparing a wet mount of onion Cytoplasm consists chiefly of which cells, a student put a drop of Lugol's iodine compound? solution on the slide. Lugol's iodine solution A cellulose was applied in order to **B** carbon dioxide 5 A **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet A larger and brighte A lipids **B** smaller and brighter **B** fatty acids C larger and darker C simple sugars D smaller and darker D amino acids Energy stored in organic molecules is What is a major distinction between living and nonliving matter? passed from producers to consumers. This statement best describes an event in A Living matter is unable to diffuse materials B Living matter is able to control chemical (C)A the process of activities with organic catalysts photosynthesis C Living matter is able to create energy **B** natural selection D Living matter is unable to use energy for C a food chain metabolic activities. D ecological succession