

## Lab investigations/scientific method

BIO

Class\_ Name Date The invention of the compound light A student placed groups of 25 seeds in a microscope enabled scientists to observe variety of temperatures ranging from 0 to 55°C. cells, helping them to A difference in the rate of germination observed in the groups at different temperatures was most A determine the number of atoms likely due to the effect of temperature on in a molecule B study the behavior of chordates A ammonia discover a basic similarity **B** bases among organisms acids D develop techniques for growing D enzymes plants in a laboratory Which sentence represents a hypothesis? The diagram below represents one-half of a 3 dissected bean seed. A Environmental conditions affect Which solution should be used to determine germination. if structure A contains starch? Boil 100 milliliters of water, let it cool, and then add 10 seeds to the water. 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet етрегаците ін тне інсираці to reach this temperature? B to the right and down C to the left and up **C** 9 A 3 D to the left and down A wet mount of unstained elodea (a green A compound light microscope has a 10x 10 aquatic plant) is observed using high power eyepiece, 10x objective, 40x objective, and (400x) of a compound light microscope. Which lowpower field diameter of 1,600 micrometers. structures would most likely be observed? What is the diameter of the field of view when the high-power objective lens is used? A cytoplasm, endoplasmic reticulum, & nucleolus **A** 10 μm ribosome, Golgi complex, **B** 40 µm & vacuole C 400 µm c nucleus, chloroplast, & cell wall D 1,600 µm D centrosome, lysosome, & plasma membrane



## Lab investigations/scientific method - Answer Key



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