

Activity A:
Observing cells

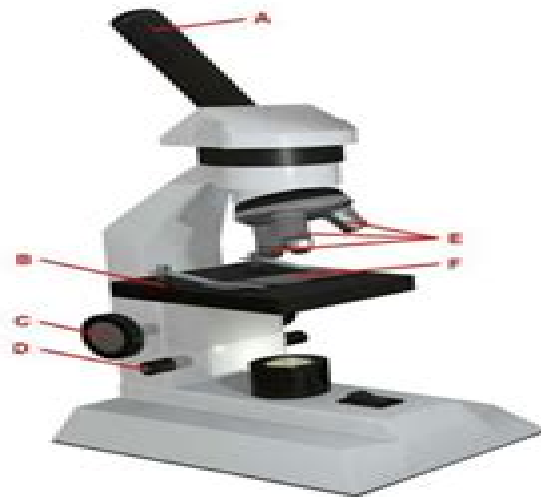
Get the Gizmo ready:

- On the LANDSCAPE tab, click on the woman's right arm to choose the **Human skin** sample.
- Select the **MICROSCOPE** tab.



Introduction: Complex organisms are made up of smaller units, called cells. Most cells are too small to be seen by the naked eye. Microscopes are used to magnify small objects, so here you will use a **compound light microscope** to observe the cells of different organisms.

Question: What are similarities and differences between cells from different organisms?



1. **Match:** Read about each microscope part. Match the description to the part on the diagram.

___ **B Stage:** Platform where a slide is placed.

___ **A Eye piece:** Lens at the top of the microscope that the user looks through. This lens most commonly magnifies a sample by 10x.

___ **C Coarse focus knob:** Large knob that moves the stage up and down to focus the sample.

___ **D Fine focus knob:** Small knob that moves the stage over a short distance to refine the focus.

___ **E Objective lens:** A second lens that further magnifies the sample. Microscopes usually have several objective lenses with different magnifications. The total magnification is the product of the eyepiece magnification and the objective lens magnification.

___ **F Slide:** A rectangular piece of glass upon which a sample is mounted for viewing under a microscope.

2. **Manipulate:** With 40x selected, use the **Coarse** and **Fine focus** sliders to focus on the sample. Then, choose 400x and focus on the sample using the **Fine focus** slider.

A. Which focus knob is easier to use at 40x? _____ 400x? _____

Answer: For me, all knobs are easier to use even if it is at 40x or 400x magnification. (Thanks to our professor's instruction I managed to use it accordingly.)

B. Turn on **Show labels**. What structures can you see in human skin cells?

Answer: I see nucleus, cytoplasm, and cell membrane.

Answer Key For Cell Exploration Activities

Ella Thea Smith



Answer Key For Cell Exploration Activities:

Cells, Teacher's Guide , *Five Design-Sheets: Creative Design and Sketching for Computing and Visualisation* Jonathan C. Roberts, Christopher J. Headleand, Panagiotis D. Ritsos, 2017-05-28 This book describes a structured sketching methodology to help you create alternative design ideas and sketch them on paper The Five Design Sheet method acts as a check list of tasks to help you think through the problem create new ideas and to reflect upon the suitability of each idea To complement the FdS method we present practical sketching techniques discuss problem solving consider professional and ethical issues of designing interfaces and work through many examples Five Design Sheets Creative Design and Sketching for Computing and Visualization is useful for designers of computer interfaces or researchers needing to explore alternative solutions in any field It is written for anyone who is studying on a computing course and needs to design a computing interface or create a well structured design chapter for their dissertation for example We do acknowledge that throughout this book we focus on the creation of interactive software tools and use the case study of building data visualization tools We have however tried to keep the techniques general enough such that it is beneficial for a wide range of people with different challenges and different situations and for different applications

Human Biology Craig H. Heller, 1999 *Prentice Hall Exploring Life Science* Anthea Maton, 1997 *Principles and Practice of Sleep Medicine E-Book* Meir H. Kryger, Thomas Roth, William C. Dement, 2010-11-01 Principles and Practice of Sleep Medicine 5th Edition by Meir H Kryger MD FRCPC Thomas Roth PhD and William C Dement MD PhD delivers the comprehensive dependable guidance you need to effectively diagnose and manage even the most challenging sleep disorders Updates to genetics and circadian rhythms occupational health sleep in older people memory and sleep physical examination of the patient comorbid insomnias and much more keep you current on the newest areas of the field A greater emphasis on evidence based approaches helps you make the most well informed clinical decisions And a new more user friendly full color format both in print and online lets you find the answers you need more quickly and easily Whether you are preparing for the new sleep medicine fellowship examination or simply want to offer your patients today's best care this is the one resource to use Make optimal use of the newest scientific discoveries and clinical approaches that are advancing the diagnosis and management of sleep disorders Stay on top of the hottest topics in sleep medicine with 56 new chapters including Postpartum Sleep Disturbances Fatigue Risk Management What does Brain Imaging Reveal about Sleep Genesis and Maintenance Physician Examination of the Sleep Patient Forensic Sleep Medicine Pathophysiology and Models of Insomnia Treatment of Insomnia Developing Treatment Guidelines Restrictive Lung Disorders Sleep Medicine in the Elderly Obstructive Obstructive Sleep Apnea Metabolic and Renal Disorders Sleep Apnea Obesity and Bariatric Surgery Sleep and Renal Disease Theories of Dreaming Why We Dream Sleep Stress and Burnout Evaluating Sleep EEG and Sleep Stage Scoring And more Master the newest areas in the field with 5 new sections covering Sleep Mechanisms and Phylogeny Genetics of Sleep Physiology in Sleep Occupational Sleep Medicine Sleep

Medicine in the Elderly Access the complete contents online fully searchable and follow links to abstracts for most bibliographical references Apply evidence based approaches wherever available Find answers more easily thanks to a new user friendly full color format *Learning to Teach Science in the Secondary School* Rob Toplis,2015-02-11 Learning to Teach Science in the Secondary School is an indispensable guide with a fresh approach to the process practice and reality of teaching and learning science in a busy secondary school This fourth edition has been fully updated in the light of changes to professional knowledge and practice and revisions to the national curriculum Written by experienced practitioners this popular textbook comprehensively covers the opportunities and challenges of teaching science in the secondary school It provides guidance on the knowledge and skills you need and understanding the science department at your school development of the science curriculum the nature of science and how science works biology chemistry physics and astronomy earth science planning for progression using schemes of work to support planning and evaluating lessons language in science practical work using ICT science for citizenship Sex and Health Education and learning outside the classroom assessment for learning and external assessment and examinations Every unit includes a clear chapter introduction learning objectives further reading lists of useful resources and specially designed tasks including those to support Masters Level work as well as cross referencing to essential advice in the core text Learning to Teach in the Secondary School sixth edition Learning to Teach Science in the Secondary School is designed to support student teachers through the transition from graduate scientist to practising science teacher while achieving the highest level of personal and professional development *Learning and Leading with Technology*,1996 **Science Interactions** ,1998 **The Publishers' Trade List Annual** ,1968 **Cells and Heredity** James Trefil,Rita Ann Calvo,Kenneth Cutler,2004-01-09 **Exploring Biology** Ella Thea Smith,1938 Intermediate Teacher's Math Activities Kit Stephen J. Micklo,2004-09-24 Grade level 4 5 6 e i t Genetics and the Inheritance of Integrated Neurological and Psychiatric Patterns Association for Research in Nervous and Mental Disease,1954 Research Publications Association for Research in Nervous and Mental Disease,1954 **Prentice Hall Chemistry** ,2000 *Biology* Neil A. Campbell,Jane B. Reece,2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter *Student Guide for Cycles of Life* Gerarld L. Kellogg,2006 *Modules* McDougal Littell Incorporated,2005 **Exploring the Digital**

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