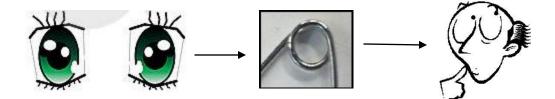
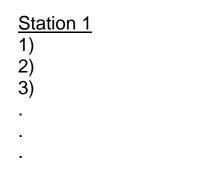
Microscope Mania Station 1

Directions:

(1) Look at the pictures and guess what they are.



(2) Write your guesses in your notebook.



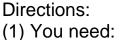


HINT:

They are all common objects that might be found in your home or a classroom.



Microscope Mania <u>Station 2</u>

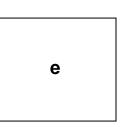


- 1 slide
 - eyedropper,
 - beaker of water
 - ruler
 - magnifying glass.



(2) Put 1 drop of water in the middle of the slide and hold over the letter "e" in the box.





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(nD

(3) Move the slide up and down until you get the letter in focus.



(5) Place another drop of water in the middle of the slide and hold over the letter "e" again. Repeat steps 3 &4

(6) Measure again with 4 drops of water



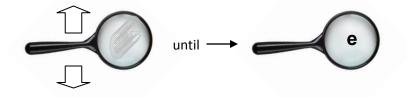
(6) In your book, <u>describe how</u> the view of the "e" <u>changes</u> as you add more drops of water?

(7) Use the magnifying glass to look at the letter "e".

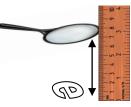




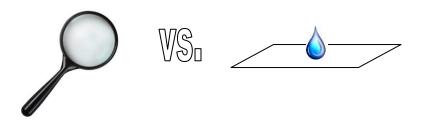
(8) Move the magnifying glass up and down until you get the letter in focus.



(9) Measure the distance between the magnifying glass and table.



(10) How does the view of the "e" with the magnifying glass compare to the slide?



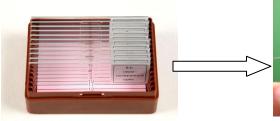
Microscope Mania <u>Station 3</u>

Directions:

(1) Put microscope on low power



(2) Select a slide and set it on the STAGE



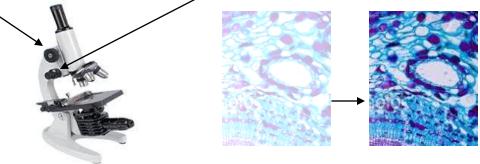


(3) Make sure the slide is centered over the light.



(4) Turn the large COARSE adjustment knob to get your slide in view.

Use the small FINE adjustment knob to make clear.



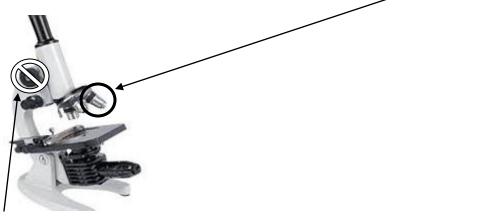
(5) To increase magnification, turn the NOSEPIECE to the next largest LENS.



Use the FINE adjustment \langle knob to sharpen the image.



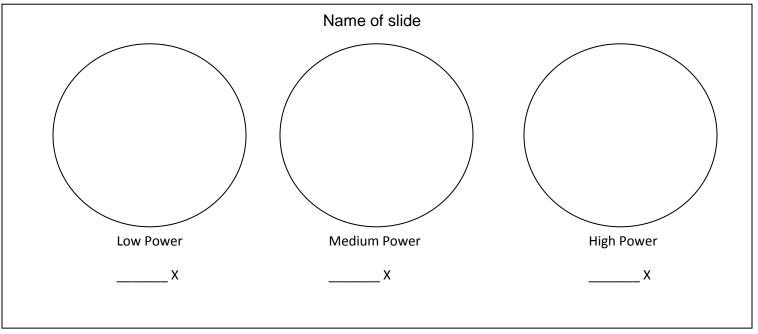
(6) To view your slide under the highest power, turn the nosepiece to so the LARGEST lens (longest) is over your slide.



WARNING: Do <u>NOT</u> use the COARSE adjustment knob with the HIGHEST power lens! It may crack or break the slide.

(7) Draw <u>one</u> slide at all 3 powers of magnification in your notebook.

Station 3



(8) Answer the questions in your notebook.

1) Which lens magnifies the most (short, medium or long)?

2) Why can't you use the coarse adjustment knob with high power?

Microscope Mania <u>Station 4</u>

Directions: Activity 4A - Vocabulary Challenge

- (1) Match the words to their definitions correctly as fast as possible.
- (2) Put all words face up on the table

Base Stage

- (3) Hold definitions in your hand
- (4) Time how long it takes you to match all the words and definitions

Base

Holds microscope

(5) Check your answers & try again

Activity 4B – Parts & Pieces

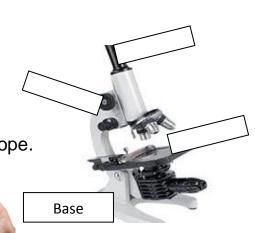
- (6) Place the labels on the correct location on the microscope.
- (7) Time how fast can you match the parts correctly

(8) Rate your efforts on these two activities in your notebook and record your time **Ratings:** $\textcircled{B} = \texttt{Great} \ \textcircled{B} = \texttt{OK} \ \textcircled{B} = \texttt{Poor}$

Station 4

Activity	Rating	Best Time
Vocabulary Challenge		
Parts & Pieces		







Microscope Mania Station 5 Directions: Welcome to ol Science E-Group @ Yah Visit_my (1) Go to sciencespot.net A De Quia ol teachers around th (2) Click Kid Zone -HJHS ence Spot (3) Click Cells & Microscopes Qui STUDENT 1 / One ZONE Chemistry Forensic Science Astronomy Matter & Atoms Solar System & Planets Cells & Microscopes Stars & Constellations Periodic Table Sites Science News & More Classification of Life Acids & Bases Genetics & DNA Health & Human Body Physics **Science Fair Sites** Motion & Forces Ecology & Environment Earth Science Simple Machines Plants & Animals Quia - Cell Organelles Microscope Activities & Images Here are the games you will be Quia - Cell Challenge Board Virtual Electron Microscope Quia - Cell Rags to Riches Online Digital Microscope using. Exploratorium Imaging Station Mitosis & Meiosis HJHS Mystery Pictures MOS Image Gallery Cells Alive: Mitosis Cells Alive: Meiosis MEMS Image Gallery Center of the Cell: Mitosis Dennis Kunkel Image Gallery Mitosis & Meiosis Nanoworld MicroAngela's G Cell Cycle & Mitosis Tutorial Nobel: Cell Division Activity NOVA: Mitosis vs. Meiosis Microscope Games & Quizzes Learn Genetics: Mitosis & Meiosis What in the World - Mystery Photos Quia - Cell Reproduction Game Microscope Parts Quiz Microscope Parts Quiz 2 Quia - Microscope Mania Game

- (4) Click What in the World? Mystery Photos
- (5) Try a few challenges. (Click more to see all challenges)
- (6) Try Quia Microscope Mania Game → Word search
- (7) Go to loreescience.ca
- (8) Click Period 1 \rightarrow Intro to Biology \rightarrow Microscope Crossword
- (9) Try the puzzle
- (10) Rate your efforts on these two activities in your notebook.

Station 5

Activity	Rating
What in the world?	© © 8
Word search <u>or</u> Crossword	\odot \odot \otimes