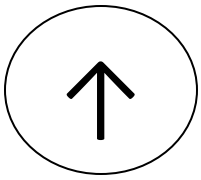
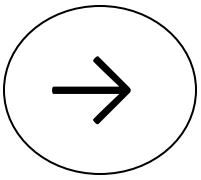
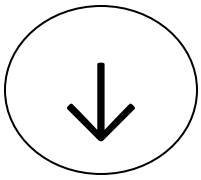
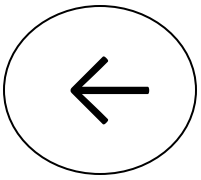
Name _____ Period _____

Science Starters – Using A Microscope

For extended response questions, answers must be written in full sentences and the question must be restated. For multiple choice questions, first choose the right answer and then using complete sentences explain why you chose the answer you did.

Day 1

A slide was prepared with an arrow which looked like this ↑. The slide was placed on the stage of a compound microscope so that the arrow ↑ was pointing up. When a student looks through the ocular lens of the microscope to examine the arrow ↑, which of the following images would the student see?

A.  B.  C.  D. 

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Day 2

A student was using a compound microscope which had an ocular lens with the magnification of 10x to view onion cells. The 20x objective lens on the microscope was being used to view the cells. What was the total magnification that the student was using to view the onion cells?

A. 10x
B. 30x
C. 200x
D. 210x

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Day 3

After a slide is prepared, it is placed on the stage which is set at its lowest level. Which of the following knobs should be used first to focus the image?

A. Fine adjustment knob
B. Coarse adjustment knob
C. Ocular adjustment knob
D. Objective adjustment knob

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Day 4

A student was using a compound microscope with four objective lenses to view a prepared muscle cell slide. Which of the following objective lenses should the student use first when viewing the muscle cells?

A. 4x B. 10x

C. 40x D. 100x

_____

_____

_____

Day 5

Below is a picture of a compound microscope. Describe the **function** of the parts of the microscope which are labeled. An example is provided for you.

Ocular Lens

A person looks through the ocular lens to view the specimen on the slide. The ocular lens usually has a magnification power of 10x.

Arm

_____

_____

_____

_____

_____

Objective Lenses

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Coarse Adjustment Knob

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Stage

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Fine Adjustment Knob

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