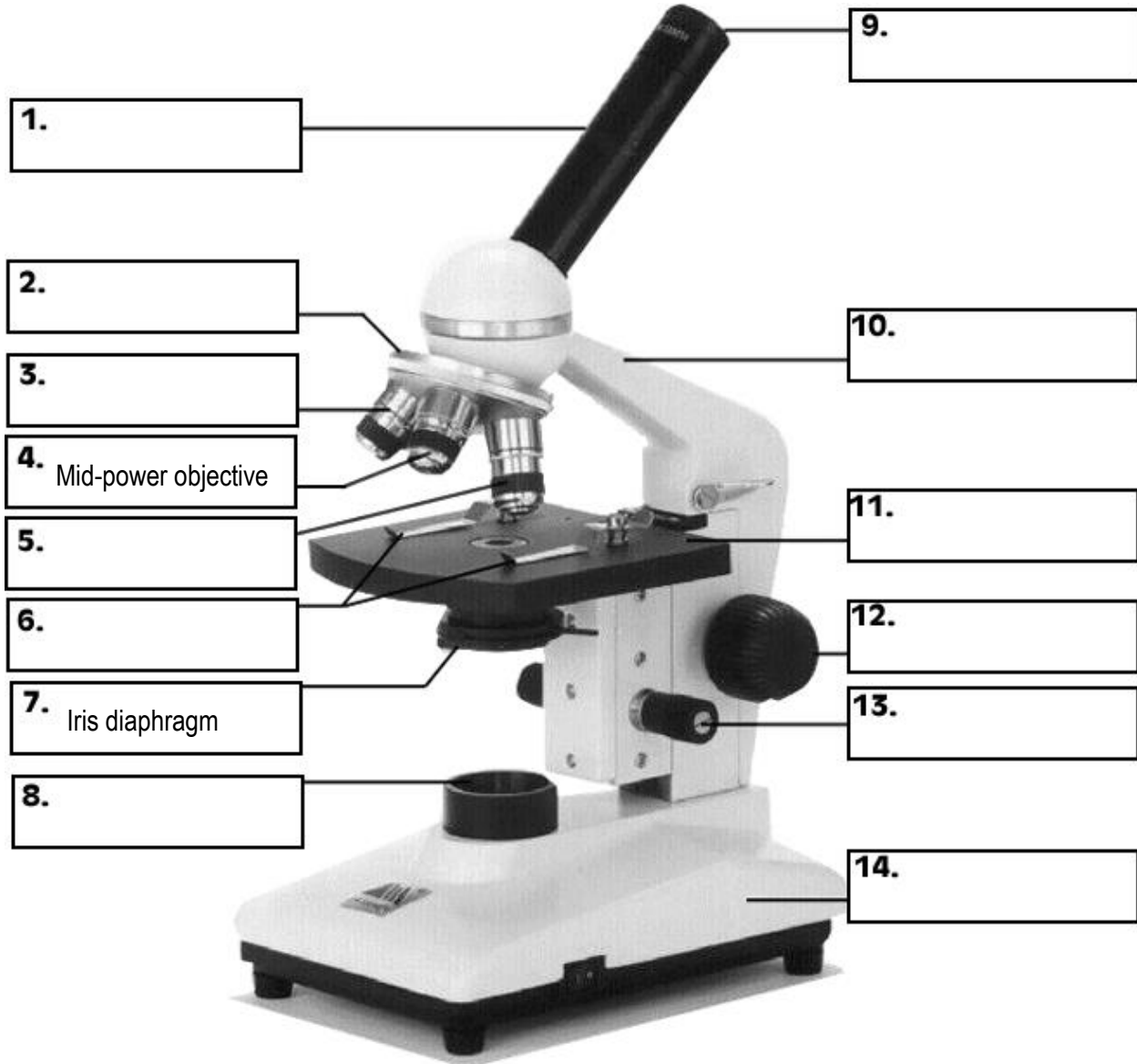


Microscopes & Metrics WS

Name _____

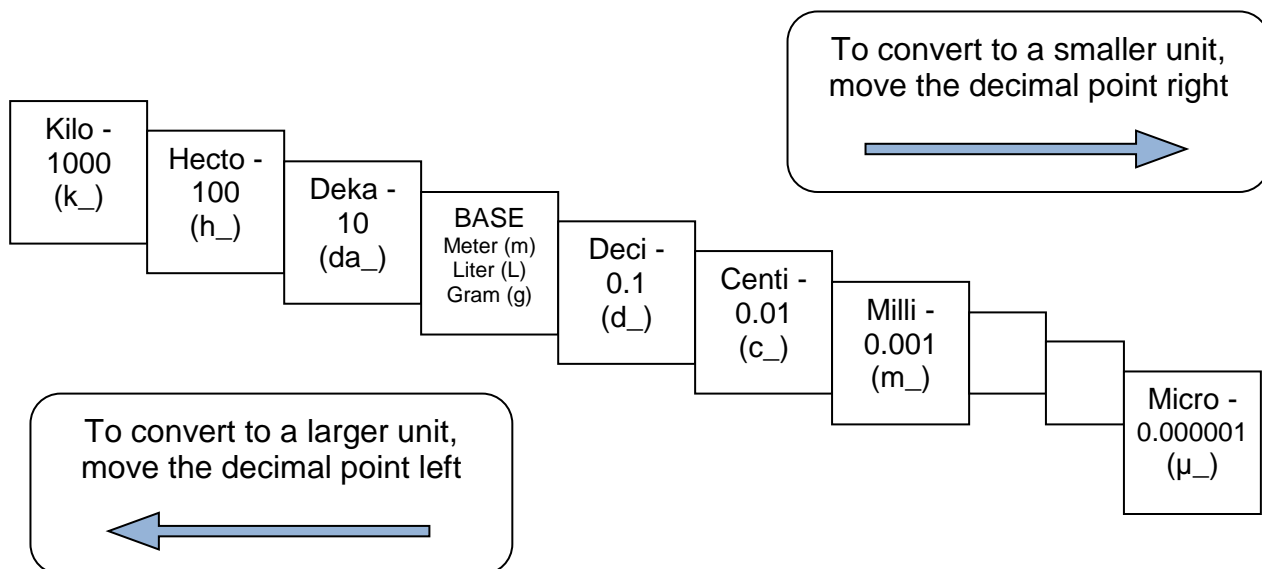
Period _____ Date _____

Fill in the labels on the microscope below using page 1040 of the textbook or the .pdf file attached to Mrs. Feekes' school website.



Answer these microscope questions using your notes from class:

- 15) What is the total magnification when using the 10x objective lens on a microscope if the ocular lens is also 10x? _____
- 16) What is the maximum possible magnification using a light microscope? _____
- 17) What is the maximum possible magnification using an electron microscope? _____
- 18) The kind of electron microscope that creates a 3D image of the surface of a specimen is a _____ and the kind that looks at a thin slice is a _____.
- 19) The measure of how much larger than normal an object appears is _____.
- 20) The measure of the clarity of an image is _____.



Count the number of steps between the starting unit and the ending unit.

When converting from a larger unit to a smaller unit, move the decimal right:

- | | |
|------------------------|--------------------------|
| 1) 59 cm = _____ mm | 2) 120 m = _____ cm |
| 3) 0.25 cm = _____ μm | 4) 65.25 kg = _____ g |
| 5) 72.9 hL = _____ daL | 6) 0.0166 dam = _____ mm |

When converting from a smaller unit to a larger unit, move the decimal left:

- | | |
|------------------------|-----------------------|
| 7) 750 cm = _____ m | 8) 162 cm = _____ hm |
| 9) 989 μg = _____ mg | 10) 1.5 m = _____ dam |
| 11) 677.7 μL = _____ L | 12) 53 g = _____ kg |

Mixed practice:

- | | |
|-------------------------|-------------------------|
| 13) 117 mm = _____ dm | 14) 1 mm = _____ μm |
| 15) 700 mg = _____ g | 16) 346 dL = _____ cL |
| 17) 15.4 daL = _____ mL | 18) 48 L = _____ kL |
| 19) 88 m = _____ km | 20) 57 μm = _____ cm |
| 21) 63.2 μg = _____ dg | 22) 5 hg = _____ mg |
| 23) 7.91 cL = _____ μL | 24) 648 km = _____ dam |
| 25) 27 μm = _____ mm | 26) 0.86 dL = _____ daL |
| 27) 1000 μm = _____ m | 28) 56.2 cm = _____ m |
| 29) 1 m = _____ μm | 30) 1 μm = _____ m |