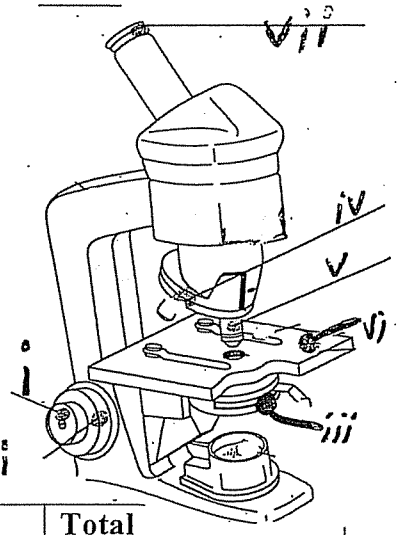
Name: _____

Teacher: Mr. C Lesiuk Block: _____

More Microscopy Practice

1. **Label the parts of the microscope shown below.**



i._____
ii. _____
iii. _____
iv. _____
v. _____
vi. _____
vii. _____

2. **What power is the typical eyepiece lens?** _____

3. **Fill in the table below**

Objective	Magnification of Ocular	Magnification of Objective	Total Magnification
Low power			
Medium power			
High power			

4. **. If you wrote the word "dod" on a very tiny piece of paper, what would it read as under the scope?**

_____

5. **If the magnification is increased, what happens to the field of view?**

_____

6 Convert the following

a. 5 cm → _____mm
b. 3.4 cm → _____mm
c. 4 m → _____cm
d. 2 km → _____m
e. 4mm → _____µm
f. 29 mm → _____µm
g. .7mm → _____µm
h. 2 cm→ _____µm
i. 250µm → _____mm
j. 593µm → _____ mm
k. 3862µm→_____ mm
l. 4629µm→ _____ cm
m. 1 mm → _____ um
n. 3mm → _____µm

7. Estimating Magnification of Drawing

- To estimate the magnification of your drawing (how much bigger did you draw your drawing from the real thing) you measure your drawing size and divide it by the real size.
- make sure the units are the same

1. Actual size = 50 µm
   Diagram size = 2cm
   Magnification of drawing= _____
   Calculations:

2. Actual size = 200 µm
   Diagram size = 3.5cm
   Magnification of drawing= _____
   Calculations:

3. Actual size = 20 µm
   Diagram size = 4.1 cm
   Magnification of drawing= _____
   Calculations:

8 Challenge.

Approximately 200 of a certain type of bacteria can fit across your medium field of vision. What is the approximate size of 1? _____