

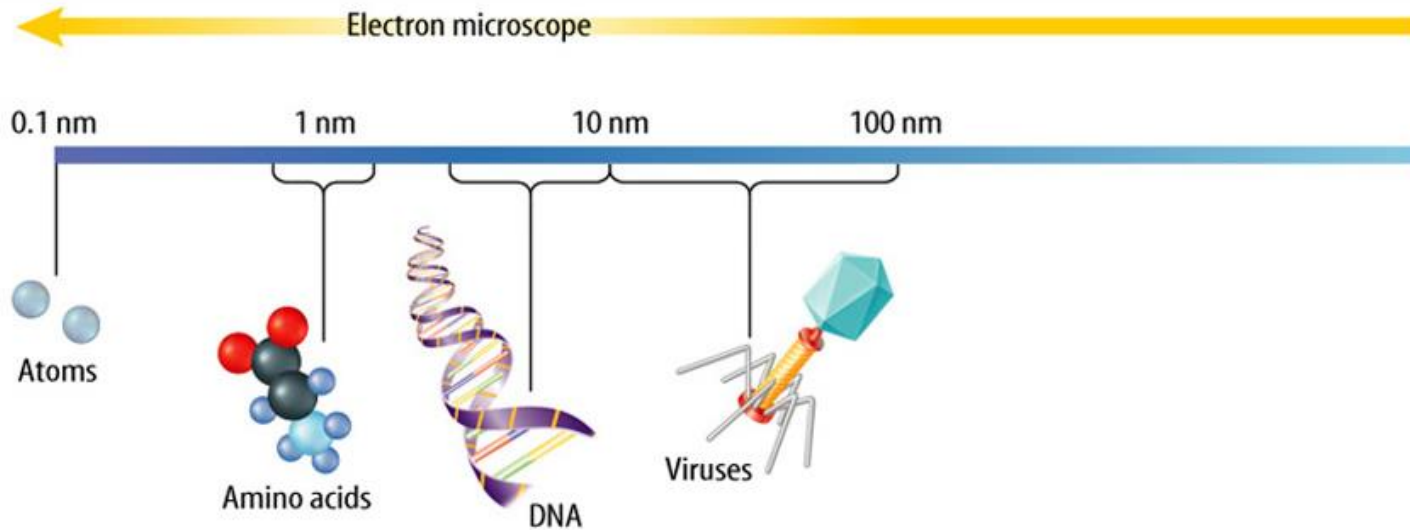
# Intro to Microscopes Notes

# Introduction to the Microscope!

<http://www.britishpathe.com/video/microscopes-through-the-ages>

# Early Ideas About Cells

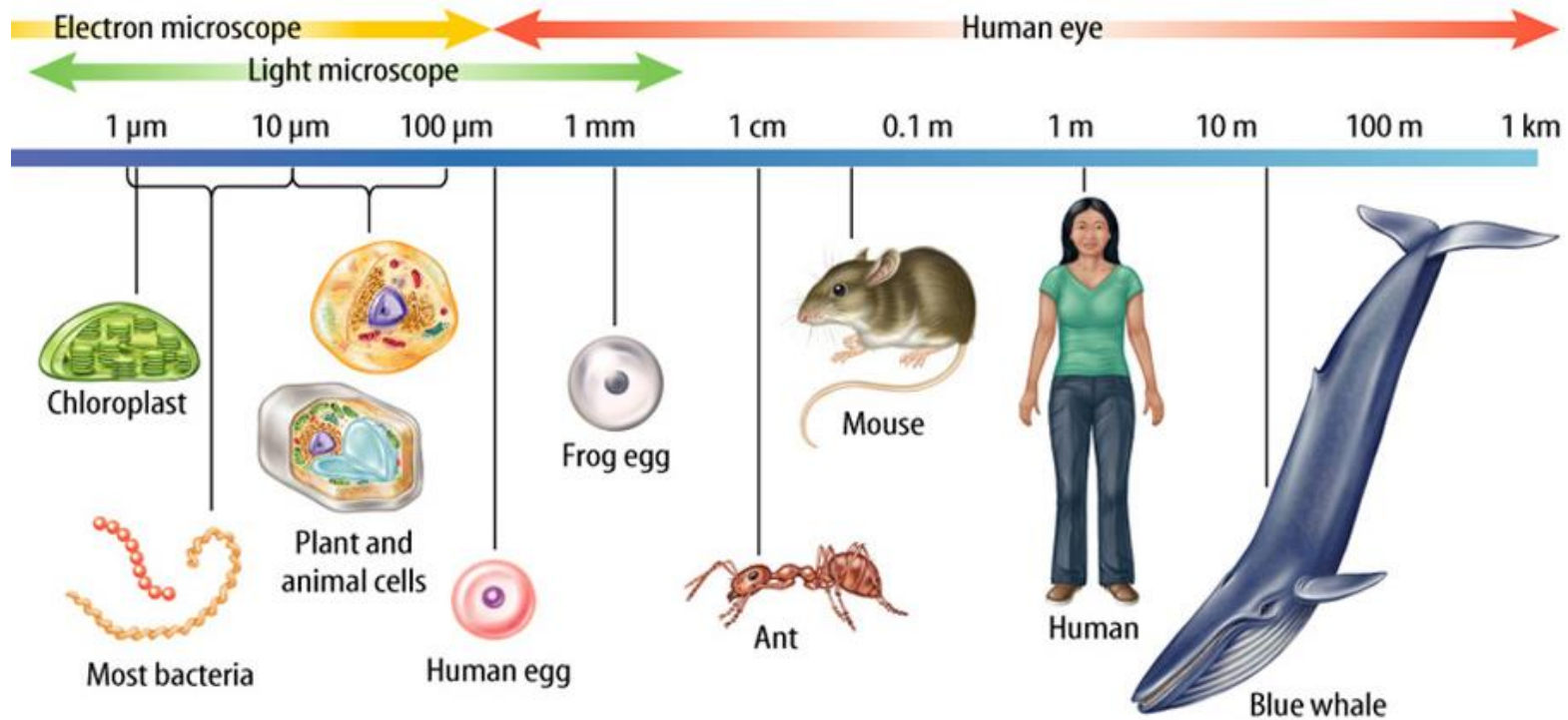
- Most cells can only be seen with a microscope.



1 billion nanometers (nm) = 1 meter  
1 million micrometers ( $\mu\text{m}$ ) = 1 meter  
100 centimeters (cm) = 1 meter  
1,000 meters (m) = 1 kilometer (km)

# Early Ideas About Cells (cont.)

- Most cells can only be seen with a microscope.



# Microscopes

- Early microscopes



– A **light microscope** uses light and has one or more lenses that enlarges an image of something.

- Modern microscopes

– An electron microscope can enlarge images 100,000 times or more.

Date \_\_\_\_\_  
Science - T. H.  
p. \_\_\_\_\_ Teacher \_\_\_\_\_

4

EYE PIECE

8

ARM

OBJECTIVE LENSES

STAGE

STAGE CLIPS

LIGHT

LIGHT SOURCE

LIGHT SWITCH

BASE

GROSS FOCUS  
(COARSE FOCUS)

FINE FOCUS

7

