

➤ Main Ideas, Key Points, Questions:

After watching the video segment, write down key points, main ideas, and big questions.

➤ Objective(s):

- *Understand the importance of units, and recognize the SI units for mass, time, and distance.*
- *Convert from one metric unit to another and between metric units and non-metric units using conversion factors.*
- *Convert numbers from standard notation to scientific notation and from scientific notation to standard notation.*

➤ Notes:

During the video segment, use words, phrases, or drawings to take notes.

➤ Summary:

After watching the video segment, write at least three sentences explaining what you learned. You may ask yourself: "If I was going to explain this to someone else, what would I say?"

Answer the following.

1. What are the SI units for distance, mass, and time?

distance _____

mass _____

time _____

2. When multiple base units are combined to form new units, these are called _____ units.

3. What are used to change a measured quantity from one unit to another? _____

4. When setting up a conversion, where does the initial unit go in the conversion factor?

5. List the number of base units for the six common prefixes below:

Prefix	Number of Base Units
kilo	
hecto	
deca	
base unit	
deci	
centi	
milli	

6. If a number in scientific notation has a positive exponent, is this a very large or very small number? What about a negative exponent?

7. In scientific notation, the starting coefficient of a number must be within what range?

8. Convert the following numbers into scientific notation:

2,000,000 = _____

0.0006 = _____