

Unit 1C Significant Figures

gpb.org/physics-motion Note-Taking Guide and Questions to Consider TEACHER



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

Objective(s):

- Understand significant figures and why they are used in measurements.
- Determine the number of significant figures in a measurement and in the final answer of a calculation.

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?"



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Questions to consider:

1.	What does the number of significant figures in a measurement represent?
	The number of significant figures indicates a measurement's level of accuracy.
2.	When determining the number of significant figures in a measurement, are non-zero numbers significant? Explain. Yes, non-zero numbers are significant.
3.	When determining the number of significant figures in a measurement, are the zeros between non-zero numbers significant? Explain.
	Yes, the zeros between non-zero numbers are significant.
	For example: 20,105 cm has five significant figures.
4.	When determining the number of significant figures in a measurement, are the zeros after a decimal and non-zero numbers significant? Explain. Yes, the zeros after a decimal and non-zero numbers are significant.
•	For example: 3.400 m has four significant figures.
5.	When determining the number of significant figures in a measurement, are the zeros between a decimal and non-zero numbers significant? Explain.
	No. These zeros are placeholders and are not a significant part of the measurement.
	For example: 0.00035 L has only two significant figures.
6.	When determining the number of significant figures in a measurement, are the zeros after non-zero numbers but before a decimal significant? Explain.
	No. These zeros are placeholders and are not a significant part of the measurement.
	For example: 29,400 kg has only three significant figures.



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Questions to consider:

- 7. When adding or subtracting, how is the number of significant figures in the answer determined?

 The answer must have the same number of significant figures as the least exact measurement.
- 8. When multiplying or dividing, how is the number of significant figures in the answer determined?

 The answer must have the same number of significant figures as the least exact measurement.