

How to Annotate Your Notes

You will have to print off the **Lecture Notes** as well as the **Math Help Notes** BEFORE watching the videos. While watching the videos you should follow along with the printed notes, annotating as you go along. The benefit of annotating your notes is this will give you a great place to write down questions to ask during class as well as notes to help you prepare for quizzes and tests.

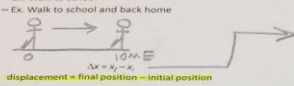
Some ways (not all) to annotate notes:

1. Identify ideas or concepts you don't fully understand (circle, highlight, asterisk...)
2. Identify and Underline key terms
3. Restate concepts in your own words
4. Write down question you want to ask during class

Example of Annotated Notes

Displacement

• **Displacement** is the change in position
 - It does NOT have to equal the distance covered
 - Ex. Walk to school
 - Ex. Walk to school and back home



$\Delta x = x_f - x_i$
 displacement = final position - initial position

Positive and Negative Displacements

Positive: $\Delta x = x_f - x_i = 80 \text{ cm} - 10 \text{ cm} = 70 \text{ cm}$
 $\Delta x = x_f - x_i = 12 \text{ cm} - 3 \text{ cm} = 9 \text{ cm}$
 $\Delta x = x_f - x_i = 0 \text{ cm} - (-20 \text{ cm}) = 20 \text{ cm}$

Negative: $\Delta x = x_f - x_i = 20 \text{ cm} - 80 \text{ cm} = -60 \text{ cm}$
 $\Delta x = x_f - x_i = 8 \text{ cm} - 15 \text{ cm} = -7 \text{ cm}$
 $\Delta x = x_f - x_i = -10 \text{ cm} - (-20 \text{ cm}) = -10 \text{ cm}$

Practice

	* Displacement	Distance
30 m N and 20 m N	30 + 20 50 m N	30 + 20 50 m
30 m N and 20 m S	30 - 20 10 m N	30 + 20 50 m
5 m N, 6 m S, 8 m N	7 m N	19 m

$5 - 6 + 8 \Rightarrow$ $5 + 6 + 8$

* Displacement →
the direction MATTERS

Just add them up

(-) means opposite of initial direction

$\Delta x = x_f - x_i$

$10 \text{ m E} - D = 10 \text{ m E}$

* MUST Label!