

## Test 2

8.1, 8.2, 8.4 (density only), 8.5 (work only), 9.1, 9.2 and 9.3  
+ related test 1 material and material from prior classes

### Local to Global Perspectives

Analyze small pieces to understand the big picture. Examples:

- area between two curves (global) via adding small rectangles (local)
- volume (global) by cylindrical disk or rectangular box slices (local)
- total work (global) via adding the work for each slice where we have approximately constant force over that displacement (local)  
= sum of force for each local slice  $\times$  slices displacement
- total series diverges (global) when individual sequence terms (local) do not get smaller.  
(when they do get smaller anything can happen)



Real life (or theoretical ideas) can indeed be ill-defined and require the critical and creative analysis of a variety of interpretations in order to fully consider the implications. I understand that this can feel frustrating and uncomfortable and I am here to help you.

**10 Growth Mindset Statements**

What can I say to myself?



FIXED MINDSET



GROWTH MINDSET

INSTEAD OF:	TRY THINKING:
I'm not good at this. I'm awesome at this. I give up. This is too hard. I can't make this any better. I just can't do Math. I made a mistake. She's so smart. I will never be that smart. It's good enough. Plan "A" didn't work.	<ol style="list-style-type: none"><li>1 What am I missing?</li><li>2 I'm on the right track.</li><li>3 I'll use some of the strategies we've learned.</li><li>4 This may take some time and effort.</li><li>5 I can always improve so I'll keep trying.</li><li>6 I'm going to train my brain in Math.</li><li>7 Mistakes help me to learn better.</li><li>8 I'm going to figure out how she does it.</li><li>9 Is it really my best work?</li><li>10 Good thing the alphabet has 25 more letters!</li></ol>

(Original source unknown)

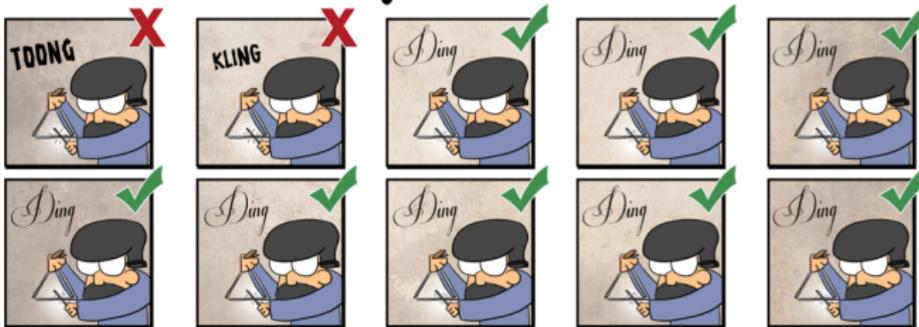
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# Internalize Material—Make it Your Own

Don't practice until you get it right.



Practice until you can't get it wrong.



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