



What is the Modern Classroom Project?

How we heard about MCP

Over the summer, we were doing self-driven professional development and collaborating back and forth about new teaching strategies.

In a podcast, the Modern
Classroom Project was
mentioned as a way to prevent
teacher burnout and re-engage
students after COVID learning.

Mastery-Based Learning

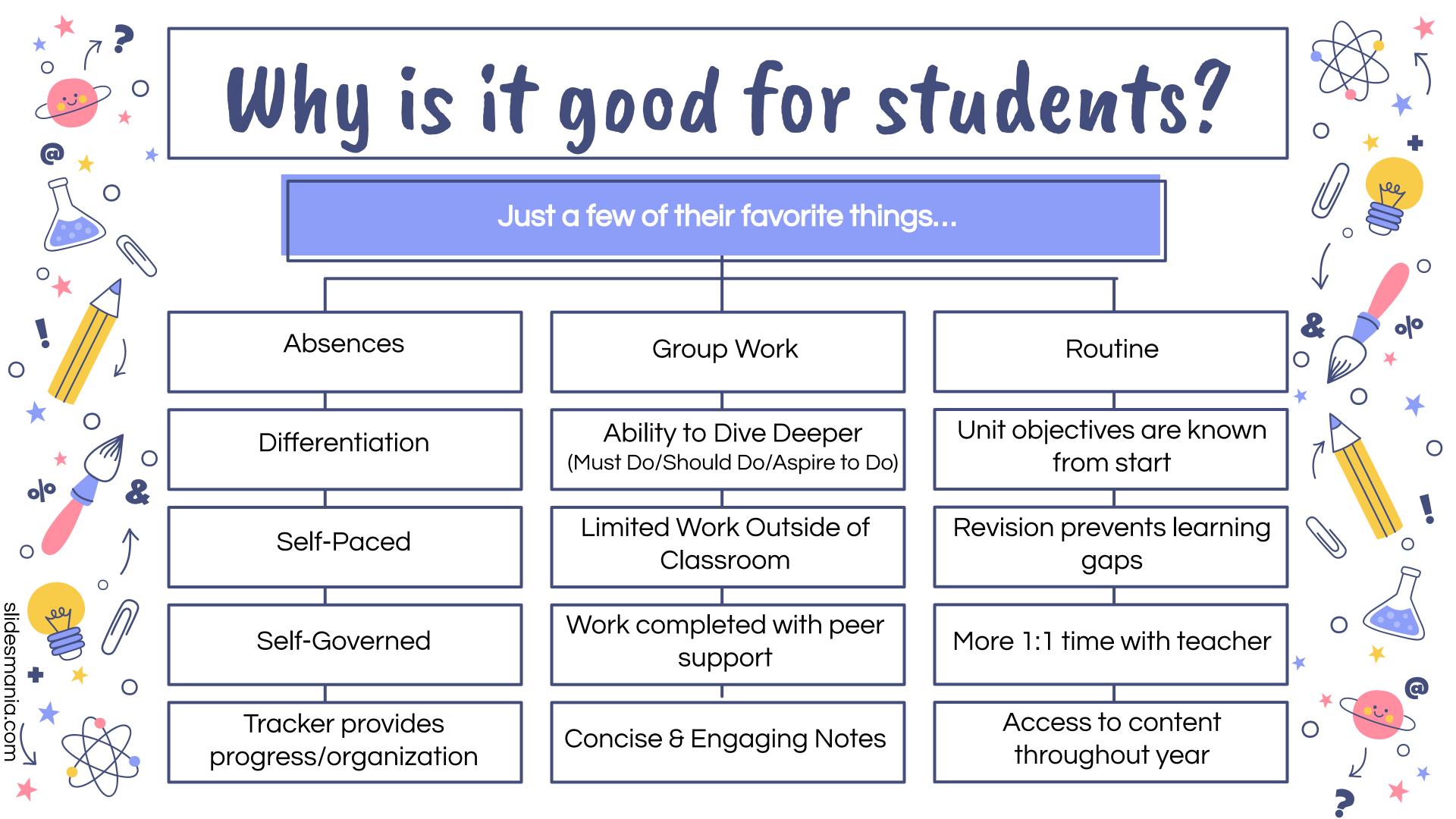
"Students progress from one lesson to the next when they demonstrate mastery."

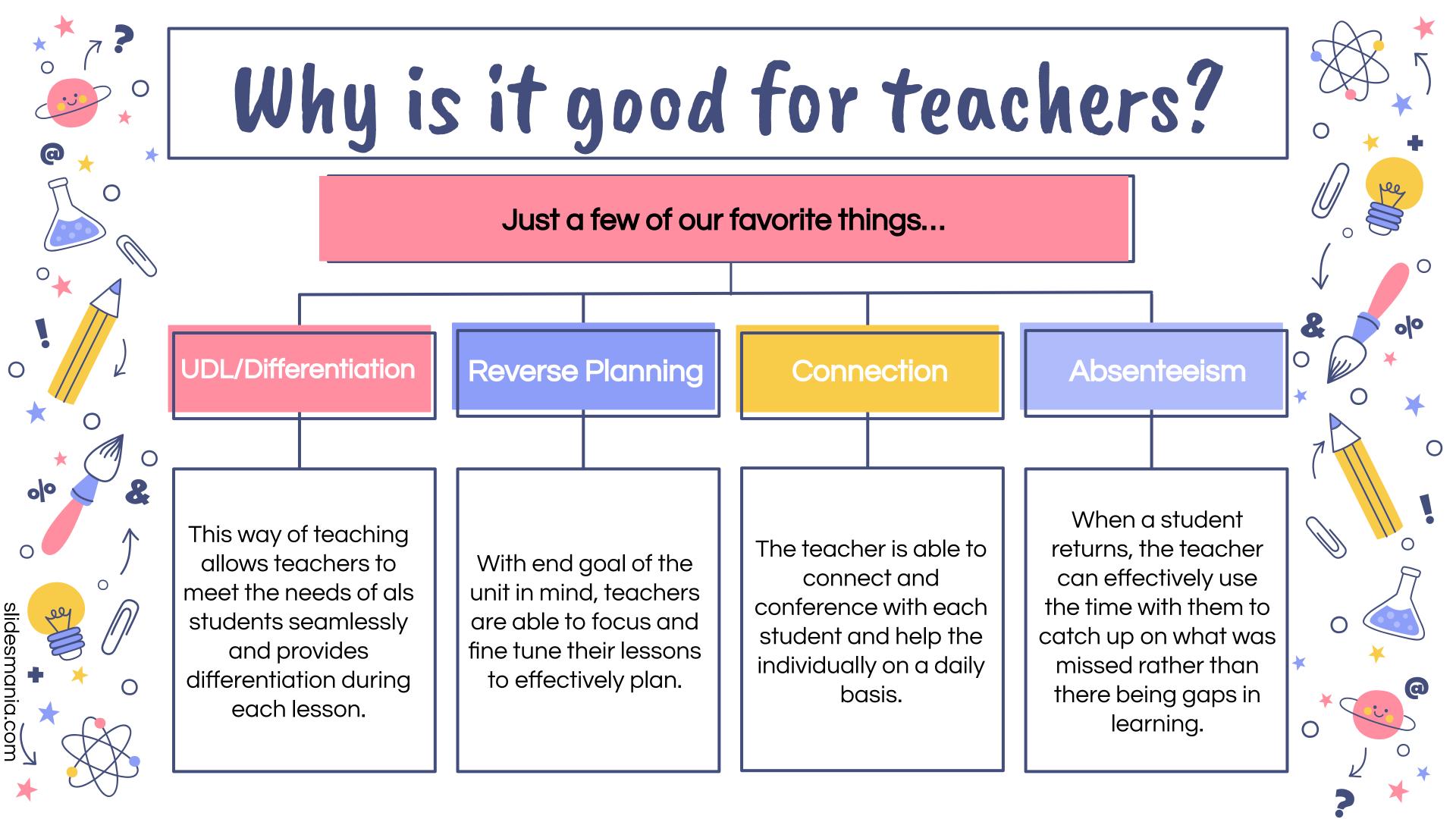
Self-Paced Structure

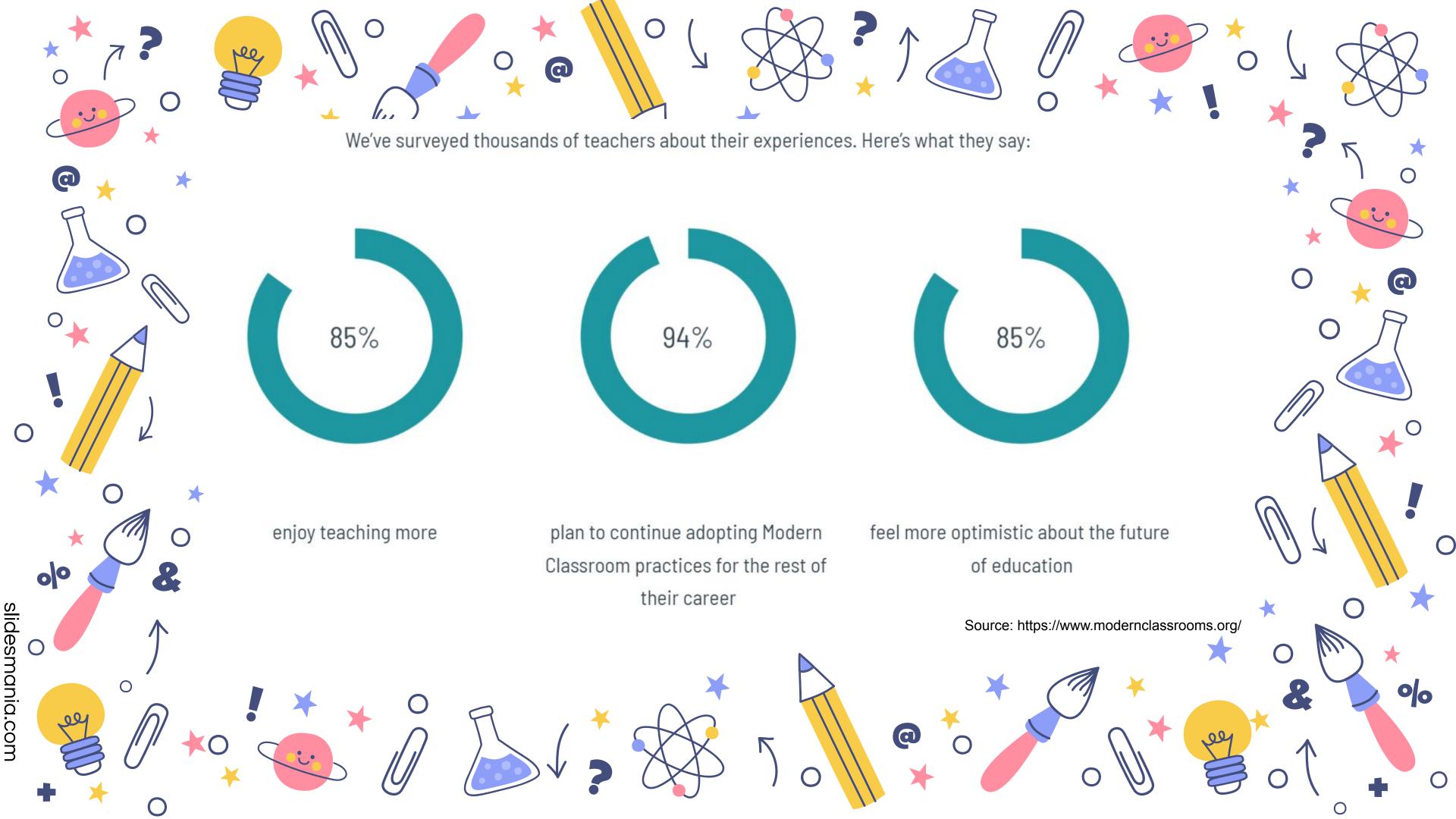
"Students control the pace of their own learning"

Blending Instruction

"Students access content through teacher created videos."









Unit Outline

Unit 12 Acids and Bases Objectives and Assignments



Lesson	Objective	Mastered?
12.1	I can identify properties of Acids and Bases and use table M. Notes Practice Lab?	
12.2	I can identify an Arrhenius acid and base and neutralize them. Notes Practice	
12.3	I can complete a titration equation. Notes Practice	
12.4	I can identify a different theory of acids and bases. Notes Practice	
	 Vocab Slides (see next page) REVIEW * Kahoot Review* *items are extra practice or aspire to do assignments 	

Units 9 - circles

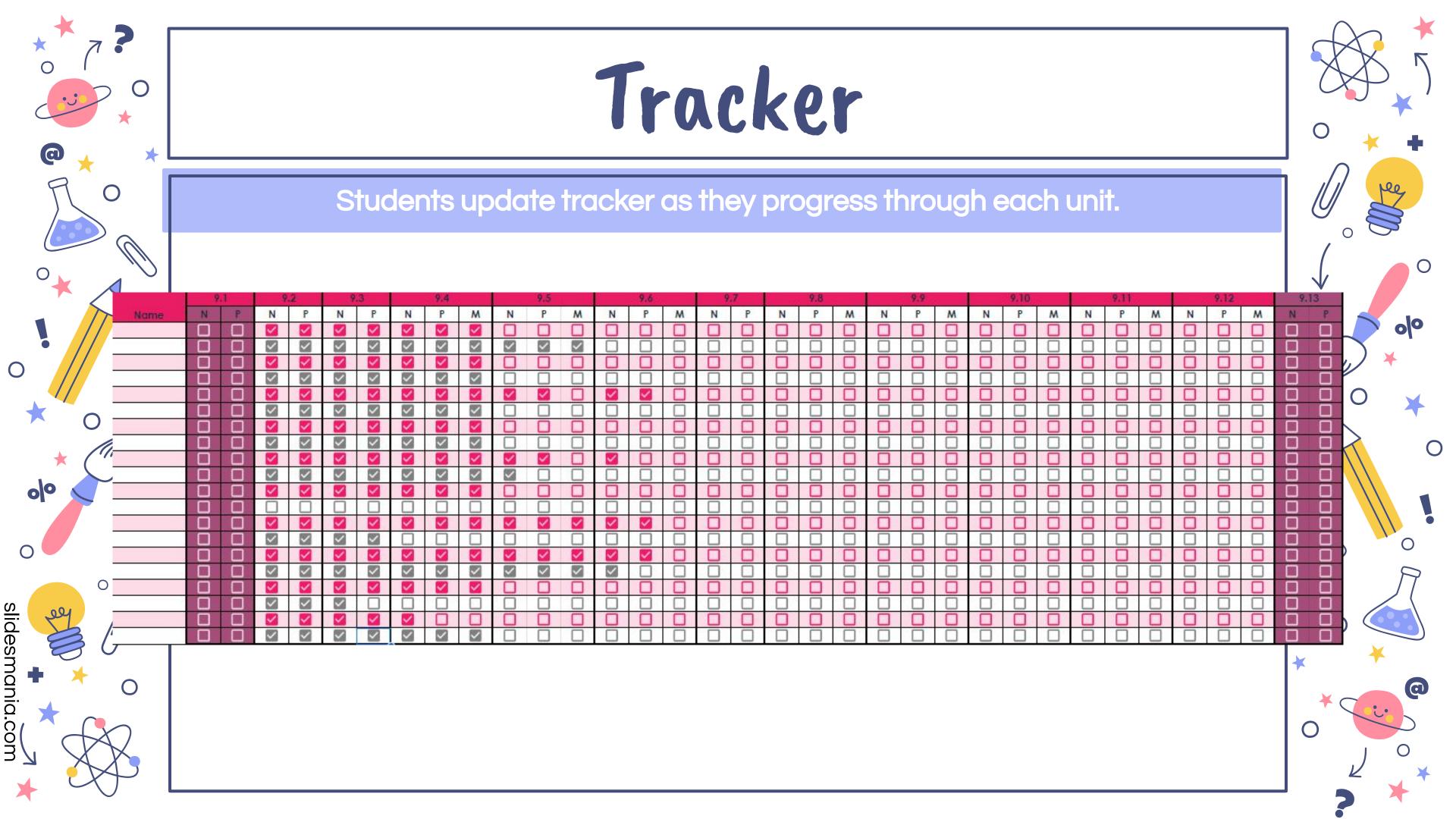
M-24 Unit 7/8 Test (open notes)	7-25 9.2 Notes & Practice	W-26 9.3 Notes & Practice	R-27 9.4 Notes, Practice & M. Check	F-28 9.5 Notes, Practice & M. Check
M-1 9.5 Notes, Practice & M. Check	T-2 9.6 Nates, Practice & M. Check	W-3 9.7 Nates, Practice & M. Check	R-4 9.8 Notes, Practice & M. Check	F-5 9.9 Notes, Practice & M. Check
M - 8 9.10 Notes, Practice & M. Check	T-9 9.11 Notes, Practice & M. Check	W - 10 9.12 Notes, Practice & M. Check	R - 11 BEGIN REGENTS REVIEW	F- 12 REGENTS REVIEW

**Notice how we have skipped over some notes. These notes will still be available in Google
Classroom, along with the answer key to the practices if you would like to attempt them. There may
be questions on the regents that are based on these skills, however the majority of the questions will
be based on the material we have covered in class. In the event you'd like to extend your learning to
these other topics, the material is there for you, but you will not be graded on it. **

Extension Notes:

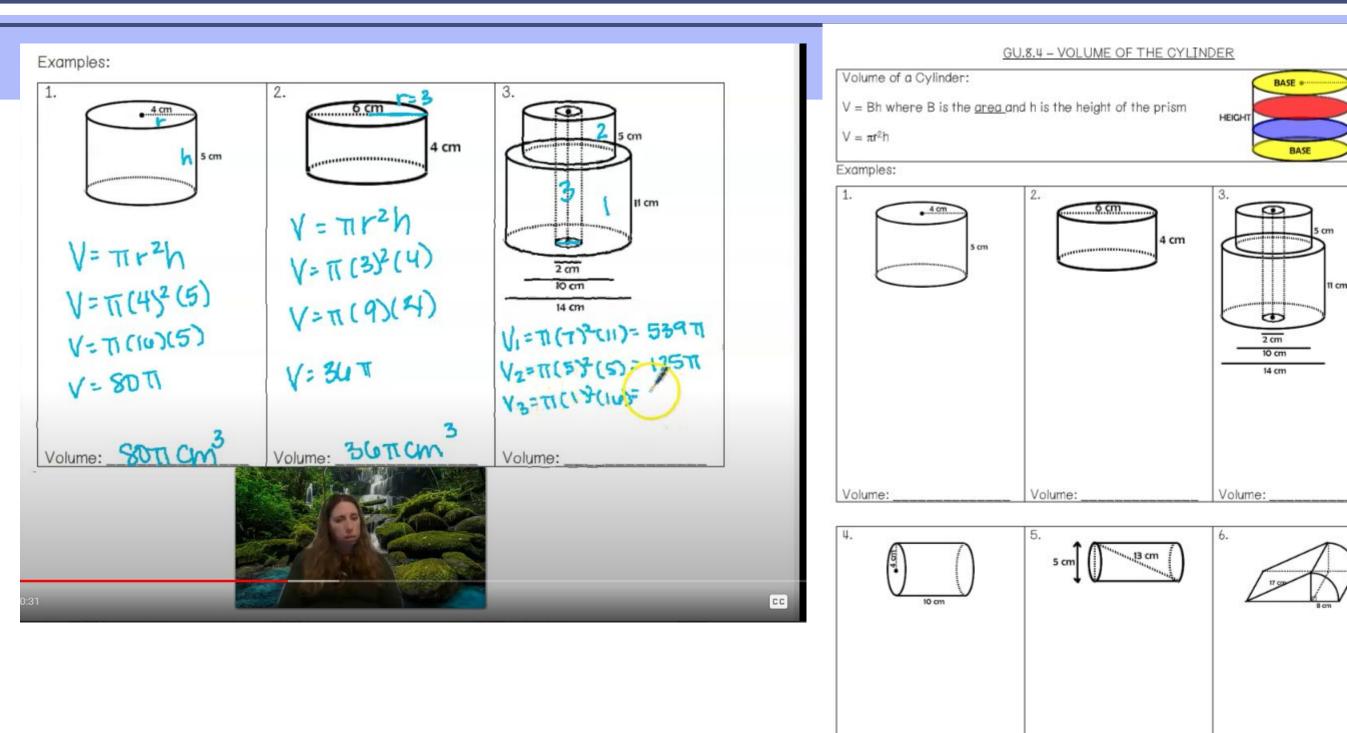
- 9.1 Similarity of Circles
- 9.4- ASPIRE TO DO PRACTICE
- 9.7- Angle Practice (ASPIRE TO DO)
- 9.12- ASPIRE TO DO
- 9.13 Equations of a Circle Practice (no video)







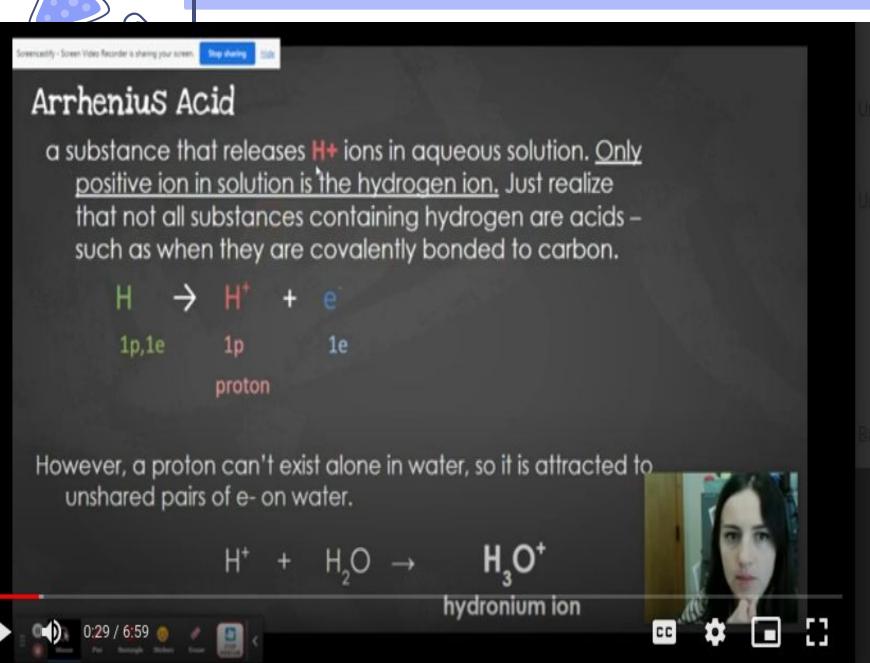
Video/Notes-Math





Video/Notes - Science





12.2 Arrhenius Acids and Bases

Arrhenius Acid – a substance that releases _____ in aqueous solution. Only positive ion in solution is the hydrogen ion. Just realize that not all substances containing hydrogen are acids – such as when they are covalently bonded to carbon.

$$H \rightarrow H^{+} + e^{-}$$

However, a proton can't exist alone in water, so it is attracted to unshared pairs of e- on water.

$$H^+ \rightarrow H_2O \rightarrow H_3O^+$$

For example:

When HCL dissolves in water its acidic properties are the result of the H⁺ ions produced

Found on Table _____. The strongest acids are at the _____.







Mastery Check





Students must achieve 80% to move on to next objective



Mastery Check

12.2 Arrhenius Acids and Bases

Directions: Answer the following questions.

When dissolved in water, an Arrhenius base

yields

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ok

slidesmania.com

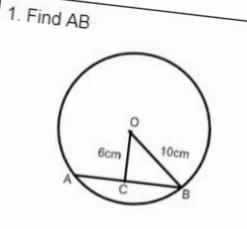
Hydrochloric Acid is classified as an Arrhenius acid because HCI contains

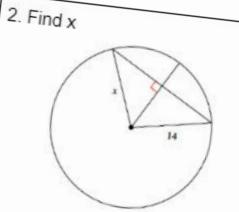
What are the products of this reactions: H₂CO₃ and Sr(OH)₂

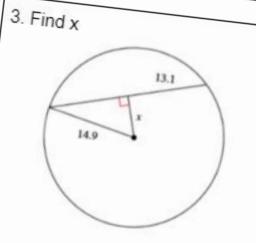
KOH → HCI +

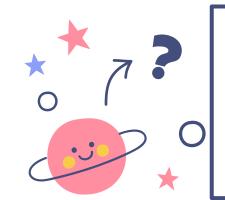
GU.9.4 MASTERY CHECK

Name:









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What students have to say...

"We can work on our own pace. If we're struggling to understand something there are videos we can go back to and Mrs. Fleming is always around to help us."

"I like it because you can do

really struggled to pay attention and improved my grade."

"It really works for me because I can pay attention much easier and I don't have to ask any questions. Last year I was always confused with what to do. Modern classroom has allowed me to do well in math and has significantly

"I like having the Modern **Classroom because it allows** me to absorb information at my own pace. In a normal classroom, the lesson goes at a set pace that is usually too fast for me to write down/comprehend the information."

"I feel it makes learning easier because I can get help with whatever specific unit I'm on and not have to ask the whole class."





