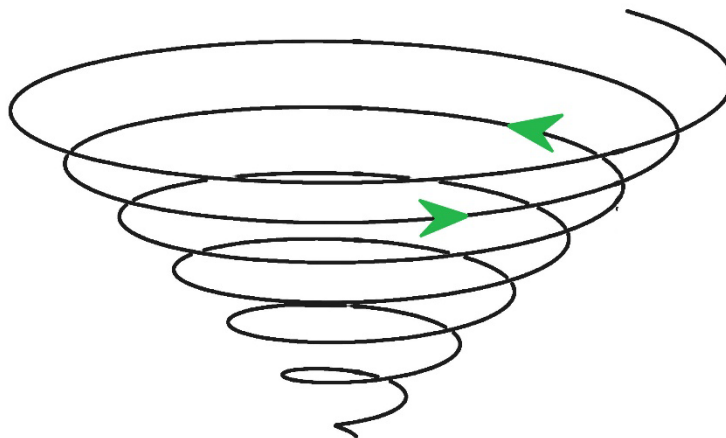


Top Teacher Moves

Re-Engagement & Spiraling



Chris Shore
Day 4 of 5
Cordova HS, Mar 10, 2025

Top Teacher Moves

- 1. High Expectations for and Communicated to ALL Students**
- 2. Tasks! (60% of the time)**
- 3. Warm-Up on Prerequisite Skills & Numeracy**
- 4. No-Options Engagement**
- 5. Dual Objectives for the Explicit Teaching of Thinking**
- 6. Group Work, Norms & Group Quizzes**
- 7. Concepts-Procedures-Applications (C-P-A Progression)**
- 8. Lapboards (Engagement, Feedback Techniques)**
- 9. 3-Reads, Close Reading**
- 10. Higher-Order Thinking Questions**
- 11. Chunking**
- 12. Gradual Reel-In**
- 13. Manipulatives & Measurement**
- 14. Structured Notes with Feedback**
- 15. Cumulative Assignments & Assessments**
- 16. Re-Engagement instead of Re-Teaching**
- 17. Use Student Thinking in Formative Assessment**
- 18. Differentiation by Extension**
- 19. Instructional Technology**
- 20. Process Reward System**
- 21. Boot Camp (Unit 0)**
- 22. Reflective Conclusion**
- 23. Home Base: Teach Students How to Play School;
More Textbooks for Students, Less for Teachers**

Compiled by Chris Shore, 2022

Revisiting the Top Teacher Moves

VISION of Cordova High:

Team Progress on Vision (1-5) _____

- Develop m_____, r_____, c_____ learners who are college and career ready.

GROWTH MINDSETS:

Team Progress on Mindset (1-5) _____

- Students must believe in _____ & _____
- Teachers must believe in _____ & _____



To Reach & Teach 'THOSE KIDS':

Team Progress on Those Kids (1-5) _____

- We need a P_____ S_____
- Students need
 - N__-O_____ Engagement
 - P_____ Skills
 - H_____ O_____ T_____ Skills



The Standards of MATHEMATICAL PRACTICE:

Team Progress on The SMPs (1-5) _____

- | | |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

Dual Targets means to have a lesson objective that states both C_____ & P_____

The Explicit Teaching of THINKING:

Team Progress on Thinking (1-5) _____

Teaching problem solving is all about the T_____.

INTERVENTION:

Team Progress on Intervention (1-5) _____

Four Types of Intervention: Mandatory Work Completion, Closed Tutorial, Open Tutorial, Preferred Time

The C-P-A Progression:

Direct instruction on procedures should occur between C _____ development and opportunities for A _____.

Group Work:

- The 3 types of group structures are H _____, H _____ & R _____.
- The 3 principles of making group work work with less work are: N _____, V _____ & A _____.



Your SCHOOL GOALS:

ACADEMIC: 3% progress with EL Students. Your prediction = ____%

CULTURAL: 3% progress with Celebrations. Your prediction = ____%

The ULTIMATE GOAL:

The ultimate goal of any Professional Learning Community is C _____ I _____
regarding all students learning at high levels, defined as G _____ L _____ or higher.

Your PROGRESS:

Your stated Problem to Solve is _____.

Your chosen Top Teacher Move is _____.





Name: _____

Date: _____

The Clothesline

For each set, record the given values, expressions or drawings. After the discussion of their placement on the clothesline, record them on the number line.

1. _____, _____, _____



2. _____, _____, _____

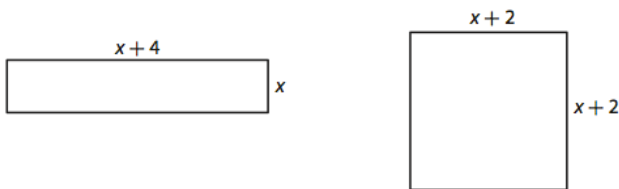


3. _____, _____, _____

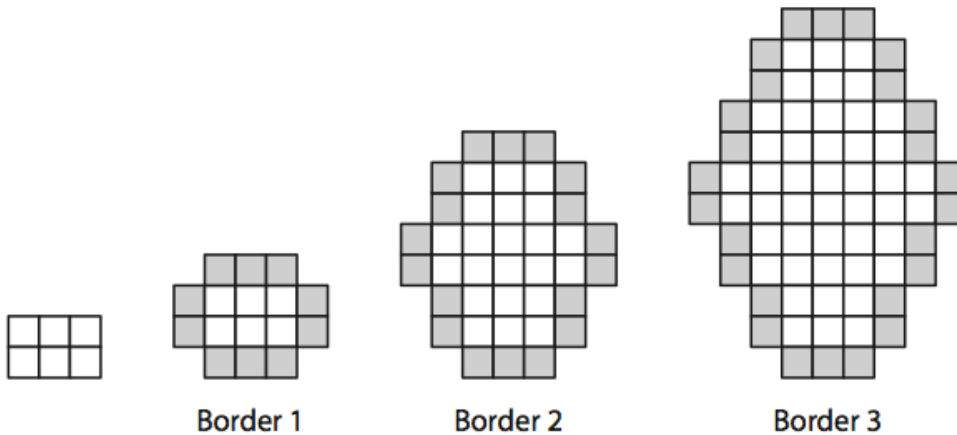


H.O.T.S.
(Higher-Order Thinking Skills)
Unit 1: Quantities, Equations & Inequalities

- 1) A student is given the rectangle and the square shown. The student states that the two figures have the same perimeter. Is the student correct? Explain your reasoning.



- 2) Jerry is planting white daisies and red tulips in his garden and he wants to choose a pattern in which the tulips surround daisies. He uses tiles to generate patterns starting with two rows of three daisies. He surrounds these daisies with a border of tulips. The design continues as shown.



- a) Jerry writes the expression $8(b - 1) + 10$ for the number of tulips in each border, wherein b is the border number and $b \geq 1$. Explain why Jerry's expression is correct.
- b) Elaine wants to start with two rows of four daisies. Her reasoning is that Jerry started with two rows of three daisies and his expression was $8(b - 1) + 10$, so if she starts with the two rows of four daisies, her expression will be $10(b - 1) + 10$. Is Elaine's statement correct? Explain.

3) A veterinarian is changing the diets of two animals, Simba and Cuddles. Simba currently consumes 1200 Calories per day. That number will decrease by 100 Calories each day. Cuddles currently consumes 3230 Calories a day. That number will decrease by 190 Calories each day. If these patterns continue, how many days will take for the animals to be consuming the same number of calories? How many Calories will the animals be consuming each day then?

4) Lisa is 10 centimeters taller than her friend Ian. Ian is 14 centimeters taller than Jim. Every month, their heights increase by 2 centimeter. In 7 months, the sum of Ian's and Jim's heights will be 170 centimeters more than Lisa's height. How tall is Ian now?

5) Given the table below, after how many years are the salaries offered by Company A and Company B the same?

	Starting Salary	Yearly Salary Increase
Company A	\$24,000	\$3000
Company B	\$30,000	\$2400
Company C	\$36,000	\$2000

6) Sven is trying to find the maximum amount of time he can spend practicing the five scales of piano music. So, Sven sets up the following inequality, where t is the number of minutes he spends on each scale, and solves it.

$$\begin{aligned} 60 - 5t &\leq 25 \\ -5t &\leq -35 \\ t &\geq 7 \end{aligned}$$

a) According to his inequality, how many total minutes does he have to practice?

How many minutes does he have to practice things other than his scales?

What does the t represent?

b) Sven solved his inequality and concluded that he should spend 7 minutes or more on each scale. Is this correct? If not, what mistake did he make? Then solve for the correct answer.

CAASPP Re-Engagement Protocols

Chris Shore with Solution Tree, Mar 2025

- 1) **BACKWARDS PLAN:** Counting backwards from the first day of the assessment, plan for about 8 problems from the Practice Test each day (4 days total), plus 2 more days for the Performance Practice Task. Also, plan two periods for the group quiz (Parts A & B), plus a third period for the additional Performance Task (Part C).

Monday	Tuesday	Wednesday	Thursday	Friday
Intro & Set 1	Practice Set 2	Correct & Reflect	Practice Set 3	Practice Set 4
Correct & Reflect	PT Day 1	PT Day 2	Correct & Reflect	Formative Day
Quiz A	Quiz B	Quiz C (PT)	Correct & Reflect	Formative Day

- 2) **INTRODUCTION:** Introduce the Re-Engagement Unit including the Claims, with students revisiting their goals and refocusing on the objectives of the course. Also have them review their Grade Record Sheets to reflect on their own strengths and weaknesses.
- 3) **PRACTICE SET:** For each block, have students loop through the Gradual Reel-In cycle (individual student, resources, group work, whole class discussion, teacher conclusion). Give students about 10 minutes to work on the prompts individually, then about 10 minutes with their textbook, notes and devices. For most of the block, allow students to work in their groups only asking for teacher help after they have struggled together. The teacher then leads the class discourse on any sticky spots observed during the group work, and finally concludes the activity with the main points of the unit. Students should also reflect on what their strengths and weaknesses are on the material.
- 4) **ANSWER KEYS/EXEMPLARS:** Every two days, supply each group of students with one copy of the handwritten answer key. Have them discuss while you make note of which prompts still give the students the most trouble.
- 5) **GRADING:** It is not necessary to grade the Unit Sets, but if you do, don't try to grade every prompt. Let the students know you will be grading some of their work, but they don't know which part, so they must complete it all.
- 6) **FORMATIVE RE-TEACHING:** From your grading, group observation or student input, identify the most difficult prompts for the majority of the students, and model exemplary responses at the end of the practice/PT problems and then again after the quizzes.
- 7) **QUIZZES:** These are group activities. Allow students the entire class period to complete them. The quizzes are shorter and less rigorous than the Practice Test problems.

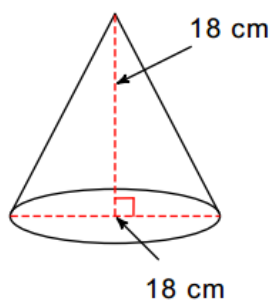
Group Quiz #13
Volume

Concepts & Procedures 1 = _____ = Construct Models
 Concepts & Procedures 2 = _____ = Critical Thinking
 Communicate Reasoning = _____ = Creativity
 _____ = Collaboration

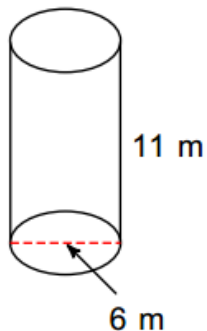
CONCEPTS & PROCEDURES 1 (Volume)

1-5) Find the volume of each of the following figures.

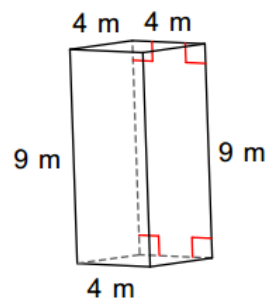
1.



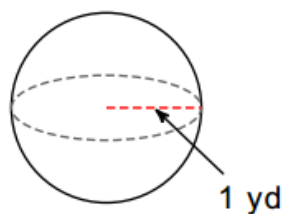
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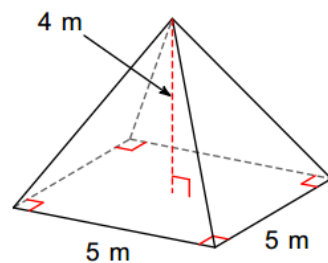
3.



4.

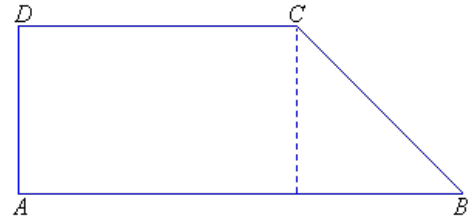


5.



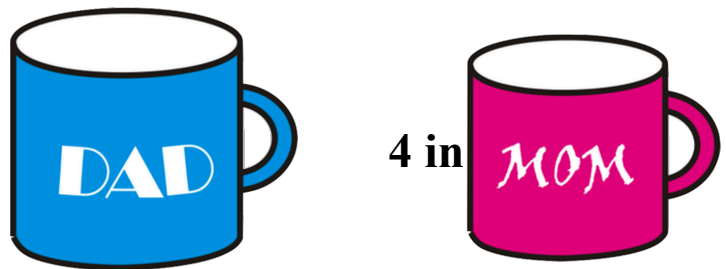
CONCEPTS & PROCEDURES 2 (Scale Factor)

6) The given figure, ABCD, is enlarged by a scale factor of 3.



- a. How much longer is the enlarged perimeter? b. How much larger is the enlarged area?

7) Dad's and Mom's mugs are similar solids. The volume of Dad's mug is 54π , while Mom's is 16π . How tall is Dad's mug?



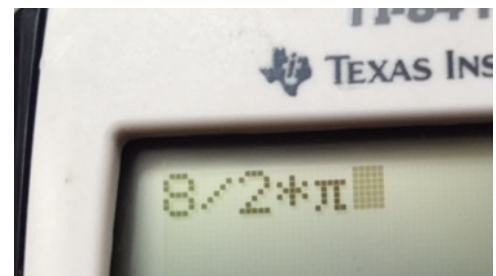
COMMUNICATE REASONING

8. Sammy was solving for the radius of circle given its circumference, as shown.

- a) Explain how you would estimate the value of $\frac{8}{2\pi}$.

$$\begin{aligned} C &= 2\pi r \\ 8 &= 2\pi r \\ \frac{8}{2\pi} &= r \end{aligned}$$

- b) Explain why Sammy's entry into the calculator, shown here, yielded the wrong answer.



CONSTRUCTING MODELS

9. Watch this video clip from the movie *Holes*: <http://bit.ly/ShorterShovel>.
How much less dirt would a boy dig if his shovel is 1" shorter than the standard shovel?

CRITICAL THINKING

10. Go to the following link: <http://mrmeyer.com/boatdock/>
What is the shortest possible length of the ramp that will connect the docks? Support your answer mathematically.

CREATIVITY

11. Draw a composite solid that has a volume between 100 cm^3 and 200 cm^3 .

Progressive Equations

Score ____, ____, ____, ____, ____, ____, ____, ____, ____, ____,

Solve

1) $x + 2 = 8$

5) $\frac{1}{3}x = 6$

2) $x - 20 = 45$

6) $\frac{x}{20} = 80$

3) $4x = 12$

- 7) On his lunch break, Crosby purchases a piece of pizza and a salad. The total order is \$9.25. If the pizza cost \$5.30, then how much was the salad. Write and solve an equation to represent this scenario.

4) $15x = 3$

Solve Your Name Poster

=

=

=

=

=

=

=

=

=

=

Solve Your Name Formula Sheet

1. Formula: _____, _____

2. Formula: _____, _____

3. Formula: _____, _____

4. Formula: _____, _____

5. Formula: _____, _____

1.	$A = lw$	Area of a Rectangle
2.	$A = \frac{1}{2}bh$	Area of a Triangle
3.	$A = \pi r^2$	Area of a Circle
4.	$A = \frac{1}{2}(b_1 + b_2)h$	Area of a Trapezoid
5.	$\pi = \frac{C}{d}$	Definition of π
6.	$C = 2\pi r$	Circumference of Circle
7.	$V = lwh$	Volume of a Rectangular Prism
8.	$V = Bh$	Volume of a Prism
9.	$V = \frac{1}{3}Bh$	Volume of a Pyramid
10.	$V = \pi r^2 h$	Volume of a Cylinder
11.	$V = \frac{1}{3}\pi r^2 h$	Volume of a Cone
12.	$V = \frac{m}{D}$	Density & Volume
13.	$F = \frac{M}{d}$	Force of Momentum
14.	$I = prt$	Simple Interest
15.	$d = rt$	Distance
16.	$y = mx + b$	Slope-Intercept Form
17.	$P = 4s$	Perimeter of a Square
18.	$P = 2l + 2w$	Perimeter of a Rectangle
19.	$E = IR$	Voltage of a an Electric Circuit
20.	$P = I^2 R$	Power of a an Electric Circuit
21.	$a + b + c = 180$	Triangle Sum
22.	$Ax + By + C = 0$	Standard Form of a Line
23.	$Ax + By + Cz + D = 0$	Standard Form of a Plane
24.	$K = \frac{1}{2}mv^2$	Energy
25.	$s = \frac{1}{2}gt^2$	Distance

26.	$x = \frac{e+f}{2}$	Average of Two Numbers
27.	$D = \frac{C-s}{n}$	Depreciation
28.	$V = \frac{KT}{P}$	Volume of Gas
29.	$S = 2B + hp$	Surface Area of a Prism
30.	$S = 2B + L$	Surface Area of a Prism
31.	$S = B + \frac{1}{2}lp$	Surface Area of a Pyramid
32.	$E = VIT$	Electrical Energy
33.	$E = QV$	Electrical Energy
34.	$q = mc$	Heat Transfer
35.	$E = mc^2$	Relativity
36.	$v^2 = u^2 + 2as$	Velocity & Acceleration
37.	$J = mhg$	Joules (energy)
38.	$z = \frac{x-u}{\sigma}$	z-score
39.	$U = \frac{1}{2}kx^2$	Potential Energy of Spring
40.	$F = q(E + BV)$	Force on a charged particle
41.	$r = i - \pi$	Fisher Equation
42.	$S = 180(n - 2)$	Angle Sum
43.	$F = \frac{Gm_1m_2}{d^2}$	Gravity
44.	$V - E + F = 2$	Euler's Equation
45.	$E = \frac{I}{\sigma}$	Ohm's Law
46.	$m = \frac{W}{g}$	Mass
47.	$X + Y + Z = 1$	Chromaticity Coordinates
48.	$I = \sqrt{\frac{W}{R}}$	Circuit Amperage
49.	$N = \frac{s^3-1}{2}$	Sierpinski's Triangle

- | | | |
|-----|----------------------------|---------------------------------|
| 50. | $K = \frac{\varphi}{U}$ | Josephson Constant |
| 51. | $Q = mH$ | Thermal Energy |
| 52. | $F = ma$ | Force |
| 53. | $Q = ST$ | Entropy |
| 54. | $f(x) = O(g(x))$ | Limiting Behavior of a Function |
| 55. | $PV = NRT$ | Ideal Gas Law |
| 56. | $\sigma^2 = \frac{Q}{p^2}$ | Variance |