My Flipped Classroom

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Class Website: www.MrsHallAlgebra2.wordpress.com
Presentation: http://bit.ly/2Dk05pM

Agenda

1. About Me
2. Our Perspective
   a. KWL Chart
   b. Flipped Classroom Overview Video
3. Student Perspective
   a. A Flipped Lesson from Start to Finish
   b. Student Feedback
4. Teacher Perspective
   a. A Flipped Lesson from Start to Finish
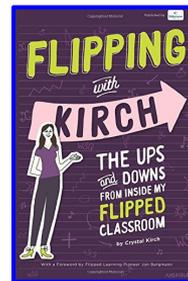5. Revisit KWL Chart

Lesson #44:
The Natural Base e
Mrs. Hall
Algebra 2

About Me

- Why? AP Calculus
- How? MfA Professional Learning Team
- Biggest Influence? Crystal Kirch

FLIPPING with KIRCH

THE UPS and DOWNS FROM INSIDE MY FLIPPED CLASSROOM

by Crystal Kirch

My First Video

AP Calc : Absolute Extrema

https://edpuzzle.com/media/564943850a249e772e49c917

My Most Recent Video

Algebra 2 : Simplifying and Multiplying Rational Expressions

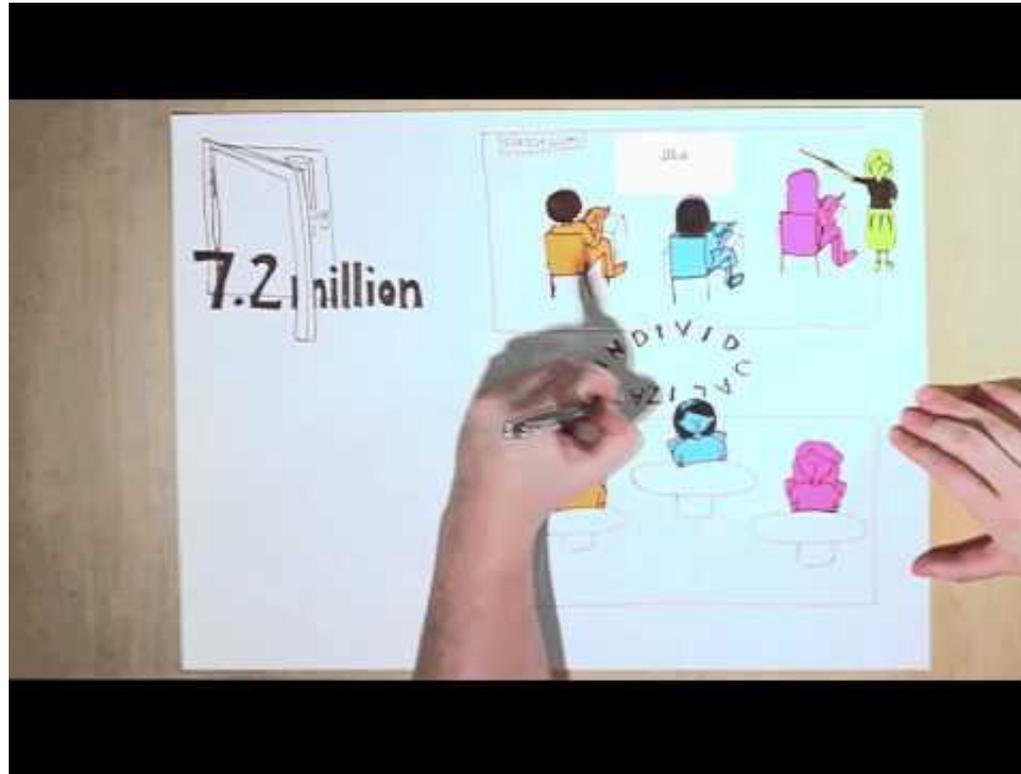https://edpuzzle.com/media/5a6e3590cce27940e9499103

KWL Chart

K - What do you know about Flipped Classrooms?

W - What do you want to know about Flipped Classrooms?

10:00

Flipped Classroom Overview Video

Student Experience @ Home

www.MrsHallAlgebra2.wordpress.com

At Home
● Watch Video & Take Notes

Lesson #64
Watch the Lesson #64 video (pay attention to the two check points!)
Explore the lesson resources for Lesson #64 on the website

Lesson #64: Geometric Sequences

🕐 FEBRUARY 27, 2018   💬 LEAVE A COMMENT

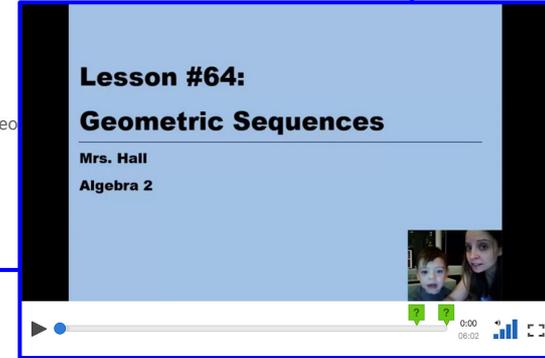Homework – Due Wednesday, February 28

Lesson #64 Note Supplement– Take notes in your notebook OR print this paper out and take
notes on this note supplement.

Lesson #64 Note Supplement Screen Shots

Lesson #64 (YouTube – link) – Watch the video

HW #64

HW #64 Solutions

Lesson #64:
Geometric Sequences

Mrs. Hall
Algebra 2

10:00

Student Experience @ School

At School
- Use the Results of the WTQ to build the Do Now
- Sample Do Now Sheet

Questions
What are some things you like from this WTQ form?
How would you adapt the WTQ form to fit your needs?

Student Voice

[The Student Experience - Survey Results](#)

Identify common themes in their responses.

Highlight anything surprising or significant.

A Flipped Lesson from Start to Finish

1. Make the Video
2. Upload the Video
3. Post the Online Resources
4. Build the Do Now
5. Class Time

Lesson #64:

Geometric Sequences

Mrs. Hall

Algebra 2

0:00
06:02
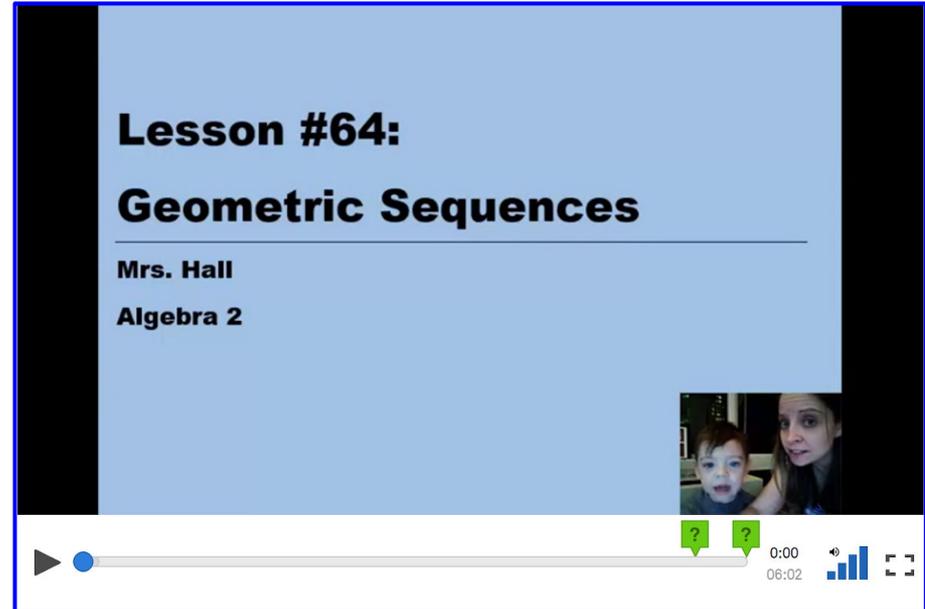
Make the Video

- 2 - 3 Example Problem
- 1 Try Problem
- Approximately 10 minutes

Technology Used

- Laptop, iPad and Stylus
- Camtasia (≈$200)
- Doceri (≈$30)

Upload the Video

Add Same 2 Questions

- Answer the Try
- Complete Your WTQ*

Technology Used:

- [EdPuzzle](#) (free)

*Watch, Try, Question (WTQ)

Sample - [WTQ Google Form](#)

Sample - [WTQ Student Responses](#)

Which lesson from Unit 8 did you watch?	AVERAGE of If y
Lesson #60: Sequences	8.2
Lesson #61: Series and Summation Notation	7.8
Lesson #62: Arithmetic Sequences	8.9
Lesson #63: Sum of a Finite Arithmetic Series	7.8
Lesson #64: Geometric Sequences	8.6
Lesson #65: Sum of a Finite Geometric Series	7.4
Lesson #66: Sums of Infinite Geometric Series	7.4
Lesson #67: Recursive and Explicit Rules in Arithmetic and Geometric Sequences	7.7
Lesson #68: Writing Recursive Rules for Non-Arithmetic, and Non-Geometric Sequences	6.7
Grand Total	**7.8**

Unit #8 : WTQ - Watch, Try, Question

* Required

Last *
Type your last name

Your answer

First *
Type your first name

Your answer

W :: "WATCH"

The first part of the WTQ is to "Watch". Make sure you have taken good notes and used the "rewind" and "pause" buttons whenever you needed to slow down or hear something again.

Which lesson from Unit 8 did you watch? *

☐ Lesson #60: Sequences

☐ Lesson #61: Series and Summation Notation

☐ Lesson #62: Arithmetic Sequences

Post the Online Resources

- For each lesson I post the same five resources

Technology Used

- [Wordpress](#) (free*)
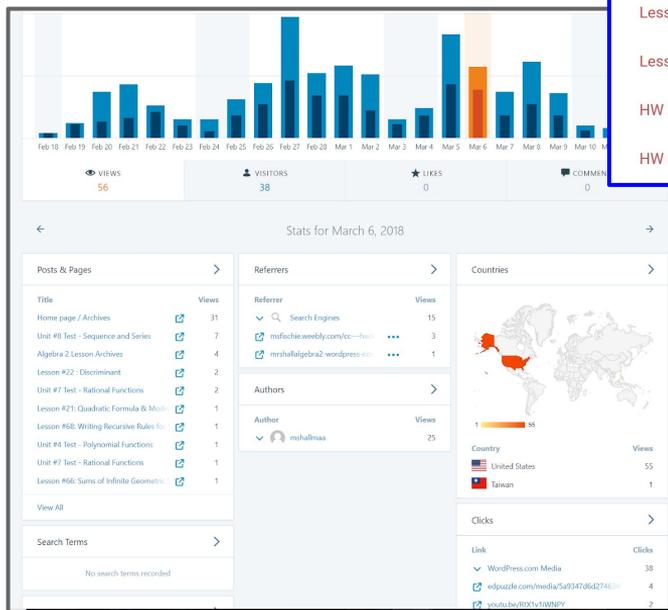
Lesson #64: Geometric Sequences

⊙ FEBRUARY 27, 2018   💬 LEAVE A COMMENT

Homework – Due Wednesday, February 28

Lesson #64 Note Supplement– Take notes in your notebook OR print this paper out and take notes on this note supplement.

Lesson #64 Note Supplement Screen Shots

Lesson #64 (YouTube – link) – Watch the video.

HW #64

HW #64 Solutions

Build the Do Now

- Use the [Results of the WTQ](#) to build the Do Now
- Sample [Do Now Sheet](#)

Unit 8: Sequences and Series
https://mrshallalgebra2.wordpress.com/

Note Supplement

Lesson #64: Geometric Sequences
Essential Question: How can you recognize an geometric sequence?

Do Now [9.3/10 Try Average]

SAT Questions

4   ⌨   **4**

37

Jeremy deposited x dollars in his investment account on January 1, 2001. The amount of money in the account doubled each year until Jeremy had 480 dollars in his investment account on January 1, 2005. What is the value of x ?

3   ⌨   **3**

19

A start-up company opened with 8 employees. The company's growth plan assumes that 2 new employees will be hired each quarter (every 3 months) for the first 5 years. If an equation is written in the form $y = ax + b$ to represent the number of employees, y, employed by the company x quarters after the company opened, what is the value of b ?

Unit 8: Sequences and Series
https://mrshallalgebra2.wordpress.com/

Note Supplement

| Rien-Nothing	D'accord. Okay.
So instead of a difference it now becomes a ratio?	Exactly!
Where did the other little guy go?	Fired.
In order to find the first term of a geometric sequence when you are given another x and y value, can you set up a proportion (like x/y =1/z , where you are given values for x and y)?	I'm not sure what you are saying. Let's look at #15 on the homework, and show me what you mean.
So would you subtract whatever is in the exponent first?	In terms of order of operations, yes.
Will I need to memorize the formulas for the SAT or SAT2s?	Out of curiosity I looked at some SATS. You aren't given these formulas. And there don't appear to be a lot of questions on sequences and series. And if they do have one it's arithmetic sequences/series.
So many formulas :(hurts my head	We're about half way through the formulas this unit
oh yeah I understand it all!!!!!!!!!!!!!! just one question... you said we don't have to memorize the geometric sequence equation since it will be given on the regent but do we have to memorize all the equations in lesson 63?	You could memorize the arithmetic series formula OR practice writing the series in summation notation to put in your calculator OR you could always add it by force
On the regents, do you think there will be a problem in which we are given a set of numbers and have to decide if it is an arithmetic or geometric sequence and write a rule for it?	You could. They LOVE to ask about geometric series which is Lesson #65.

Class Time

Teacher Packet
1. Do Now / Written Response
2. Screen Shots
3. WTQ Responses
4. Homework with Answers

Always
- Do Now / Written Responses
- Homework Time

Occasionally
- Sorts/Matching Activities
- Kagan Cooperative Learning - Quiz-Quiz-Trade
- Teach Like a Champion - Show Me, Big Ideas, Circulate
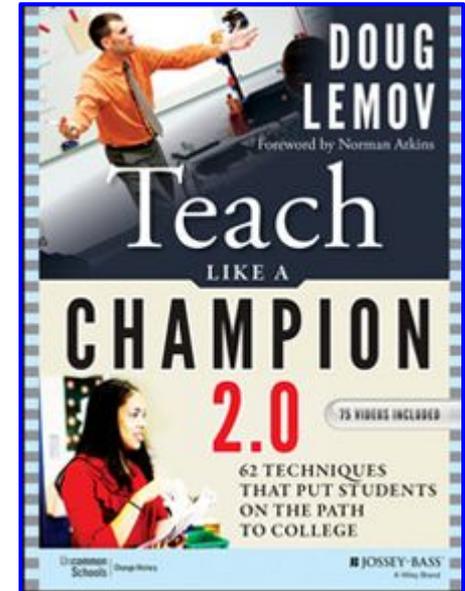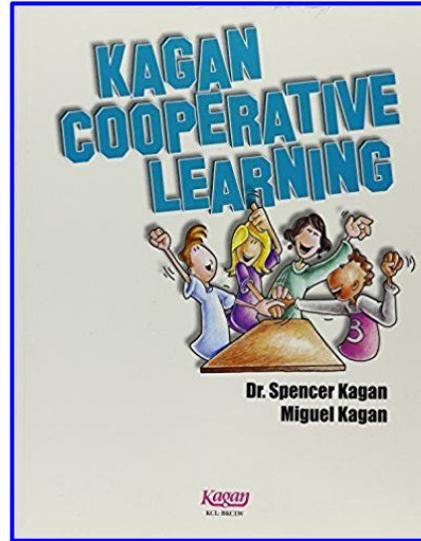
Revisit KWL Chart

K - What do you know about Flipped Classrooms?

W - What do you want to know about Flipped Classrooms?

L - What have you learned?

10:00

Reflection on My Flipped Journey

Year 1 - Flipped AP Calculus - [Video Library](#) | Blended Geometry - [Website](#) | [Student Video](#)

 Focus - creating videos, questions embedded in the video
 Summer - [Flipping with Kirch Book Club](#)

Year 2 - Flipped Algebra 2

 Focus - streamlined data collection, student feedback to build the structure
 Summer - [Flipped Learning Certification Level 1](#)

Year 3 - Flipped Algebra 2

 Focus - use of class time, Kagan Strategies
 Summer - Mastery Based Learning, [Flipped Learning Certification Level II](#)