

Getting Started



Welcome to the Idaho Standards Review Kickoff! Thank you for joining us today.

While you are waiting please include the following in the chat:

1. Where you live in Idaho
2. Three words that come to mind when you think of standards

Zoom tip: Make sure you minimize Zoom to find your chat box and participants icons at the bottom of your screen



STATE STANDARDS REVIEW

KICKOFF MEETING JUNE 29 AND 30, 2020



Supporting Schools and Students to Achieve

SHERRI YBARRA, ED.S., SUPERINTENDENT OF PUBLIC INSTRUCTION

6/29/20

Big Picture



Why

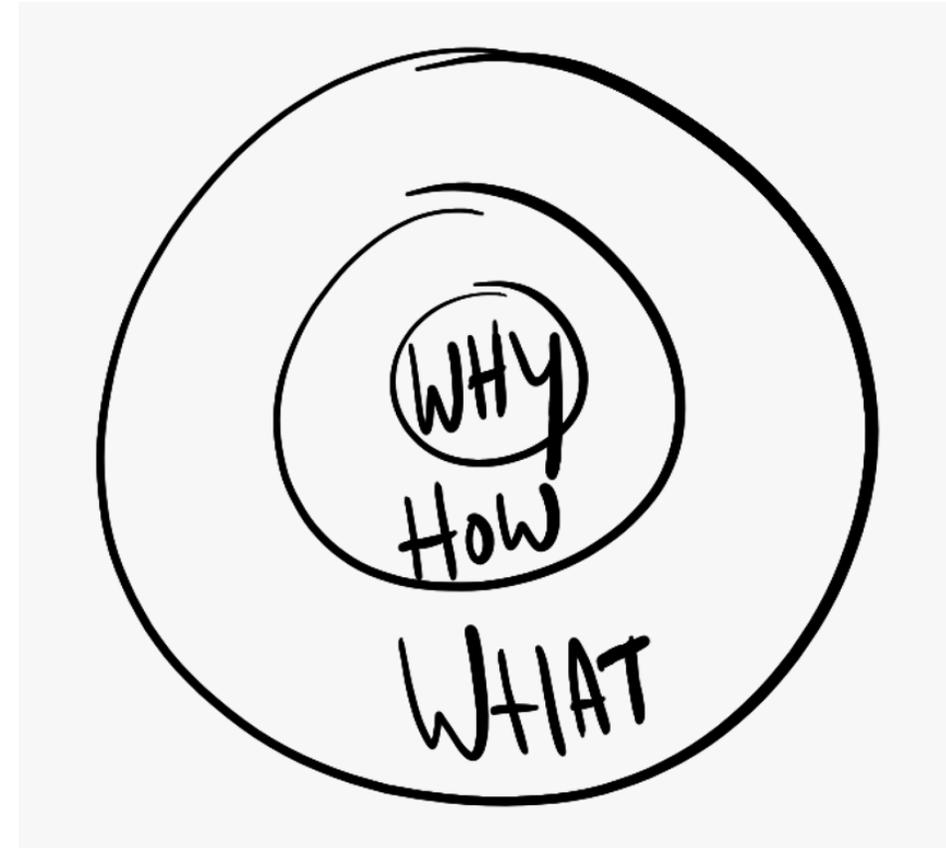
- strong educational standards of what students should know and be able to do at the end of each grade
- the Legislature has provided us guidance

How

- workgroup tasks

What

- completed Idaho Content Standards



[This Photo](#) of Simon Sinek's Golden Circle (2017) is retrieved via Google images

Welcome



Marilyn Whitney

Deputy Superintendent of
Policy and
Communications

AGENDA



WHY

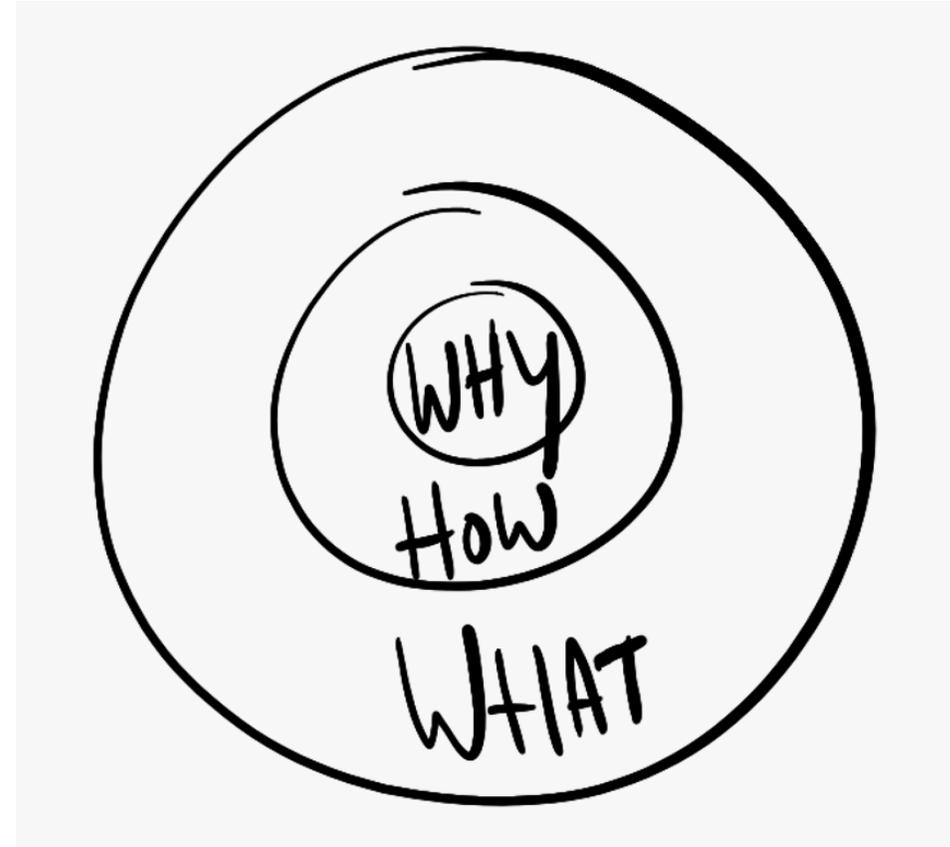
- Context for the Work
- Personal WHY

HOW

- Meet the Group
- Logistics
- Edmodo

WHAT

- Standards Walk Through
- Homework



[This Photo](#) of Simon Sinek's Golden Circle (2017) is retrieved via Google images



What is our why?



Historical Perspective



- Letter from House and Senate Education Committees
- State Department of Education/State Board of Education Response
- Timeline
- The Legislative Study Committee
- Your task

Zoom tip: Use your "raise hand" icon in the participants window and we will call on you or ask your question in the chat box



<http://www.covermesongs.com/wp-content/uploads/2017/01/QA.jpg>



Task:

- Reread the Education Committees' Letter-document 2 in documents and instructions email (5 mins)
- After reading, please answer the bullet below in the chat:
 - Tell us how your why connects to the Education Committees' Letter

Education Committees' Letter: Math Focus



1. Explicitly state grade levels at which students should demonstrate mastery of addition, subtraction, multiplication, and division facts. Integrate these basics with critical thinking and real-life problem solving throughout the standards to ensure more connections to science, business, and other related disciplines.
2. Reduce the number of standards, use less complex verbiage, and prioritize the more important concepts without marginalizing the accuracy of the standards.
3. Ensure the standards are age and grade level-appropriate especially in the early grades, emphasizing the concrete nature of young minds.
4. Make certain that standards requiring problem solving are age appropriate and do not exceed the knowledge standards accepted for each grade level.



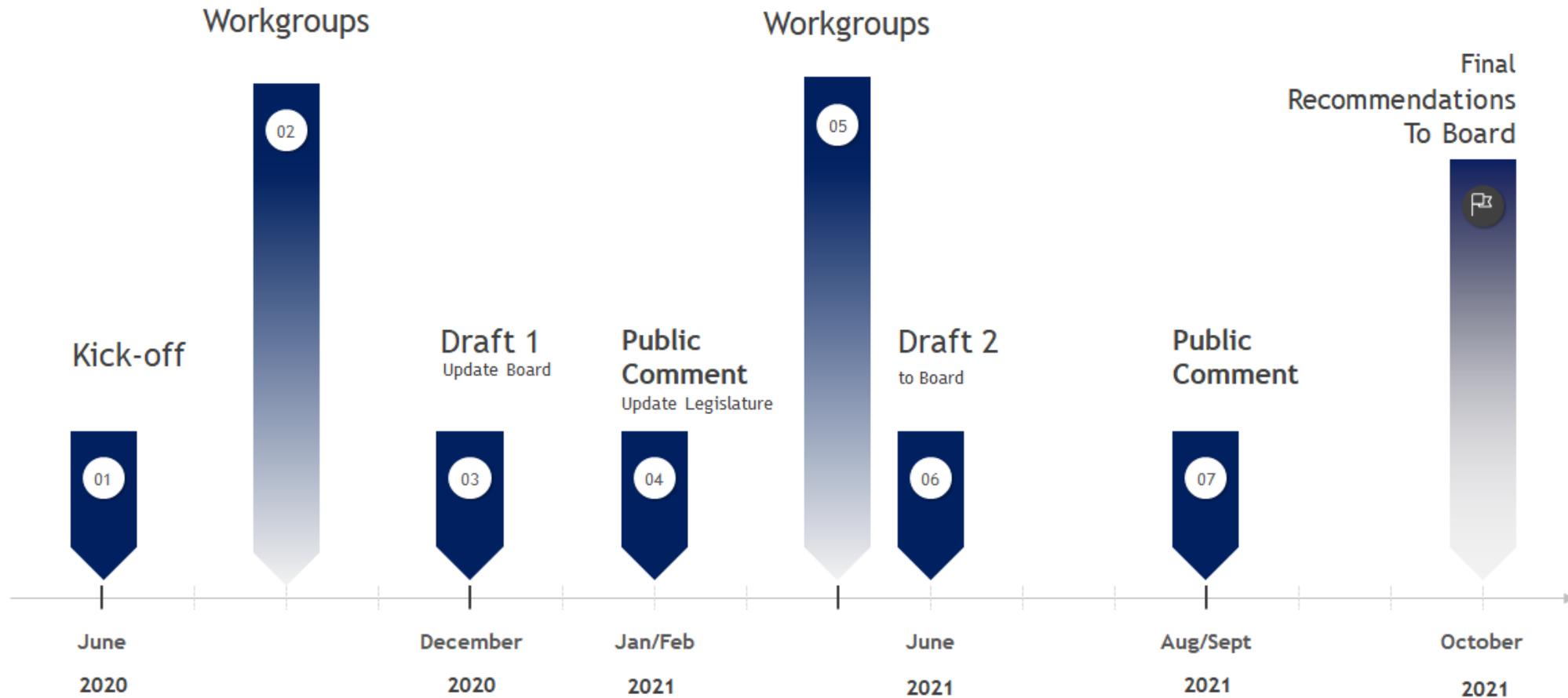
How will we get there?



Timeline



Content Standards Review Timeline



MEET OUR C & C TEAM



Todd Driver,
C&C Director



Dr. Catherine Beals,
Mathematics Coordinator



Sharon Cates,
Science/STEM/ISAS Coordinator



Liz James,
ELA/Literacy Coordinator



Aaron McKinnon,
*Mastery-Based Education
Coordinator*



Peter Kavouras,
*Social Studies/PE/Health
Coordinator*



Rebecca Martin,
*Arts/Humanities/GATE
Coordinator*



Rick Kennedy,
*IT/Computer Science
Coordinator*



Linda Becker,
Grants/Contracts Specialist



Chrystal Allen,
Curricular Materials Specialist



Melissa Knutzen,
C&C AA

How We Are Organized



- **Working Group**- write the standards, driving the work
- **Facilitators**- moderator, logistics, communication
- **Content Coordinators**- content consultant
- **Consultants**- from other states
- **Subgroup Facilitators**- SDE Idaho Coaching Network/Regional Math Centers

How We Communicate in Zoom



- Use the chat to engage in conversation, agree with others, or ask questions
- Raise your hand electronically
- Camera on is preferred
- Microphone muted – unmute to talk
- Make sure your name shows correctly

How We Communicate in Zoom Continued



Photo courtesy of zoom: <https://support.zoom.us/hc/en-us>

How We Work Together



Be Respectful
Be Supportive
Be Present
Be Open



Photo courtesy of PowerPoint

Our Team



Let's get to know our team!

Please:

- Introduce yourself
- Committee role
- Who was your favorite teacher and why?



Photo courtesy of PowerPoint

Break



Get a glass of water.
Take a very short walk.
Rest for a few minutes.

Progress Bar



- All review documents will be posted and housed
- Discussion board to ask questions and keep connected in between meetings
- Group announcements and reminders



What is the outcome?



Dr. Catherine Beals - Math Coordinator



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A Math Challenge



- 310,000 Idaho students
- Add 6 more entering kindergarten classes of 25,000
- Multiply by 50 people they impact in their careers
- Double it

EXPONENTIAL IMPACT



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Standards Review Kickoff Meeting

June 29/30 2020 | 22



What are
standards?

What is
curriculum?

Present Standards Overview



Home / Departments / Content and Curriculum / Idaho Content Standards

Idaho Content Standards



All students graduating from Idaho public high schools must meet [state adopted content standards](#). These standards are to be used as a minimum threshold by every school district in the state in order to establish some consistency in academic content statewide.

Each school district may set standards more rigorous than these state content standards, but no district shall use any standards less rigorous than those set forth in [IDAPA 08.02.03.102, page 11](#). It is still up to each local school district to adopt its own curriculum (how the standards are taught) to meet these standards. Idaho reviews and revises, when needed, all content standards on a six year review/adoption cycle.

Files

FAQs

Events & Training

Links

Resource Files

Content Standards

ORDER STANDARDS BOOKLETS for Science, Mathematics & English Language Arts/Literacy

- Go to "[Alexanderclark.com](#)"
- Click on "online order" – upper right hand of page
- Your customer code is "isde123" lower case

Content and Curriculum »

- > **Idaho Content Standards**
- > Arts and Humanities
- > Computer Science
- > Curricular Materials
- > English Language Arts/Literacy
- > Gifted and Talented
- > Health Education
- > Idaho Science and Aerospace Scholars
- > Information and Communication Technology
- > Mathematics
- > Physical Education
- > Science
- > Social Studies

📅 Events »

Organization- Sections



1. Table of Contents
2. Introduction
3. How to Read
4. Standards for Practices for all grades
5. Grade Level Content K-8 *Overviews
6. Topical 9-12



Standards Organization



Domain

number and operations in Base ten

3.nBt

Use place value understanding and properties of operations to perform multi-digit arithmetic.

1. Use place value understanding to round whole numbers to the nearest 10 or 100.
2. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.
3. Multiply one-digit whole numbers by multiples of 10 in the range 10-90 (e.g., 9×80 , 5×60) using strategies based on place value and properties of operations.

Cluster

Standard

Standards for Mathematical Practice



STANDARDS FOR MATHEMATICAL PRACTICE

The Standards for Mathematical Practice describe varieties of expertise that mathematics educators at all levels should seek to develop in their students. These practices rest on important “processes and proficiencies” with longstanding importance in mathematics education. The first of these are the NCTM process standards of problem solving, reasoning and proof, communication, representation, and connections. The second are the strands of mathematical proficiency specified in the National Research Council’s report *Adding It Up*: adaptive reasoning, strategic competence, conceptual understanding (comprehension of mathematical concepts, operations and relations), procedural fluency (skill in carrying out procedures flexibly, accurately, efficiently and appropriately), and productive disposition (habitual inclination to see mathematics as sensible, useful, and worthwhile, coupled with a belief in diligence and one’s own efficacy).

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, “Does this make sense?” They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for an express regularity in reasoning.

K-8 Content with Overview pages



GRADE 4 OVERVIEW

Operations and Algebraic Thinking

- Use the four operations with whole numbers to solve problems.
- Gain familiarity with factors and multiples.
- Generate and analyze patterns.

Number and Operations in Base Ten

- Generalize place value understanding for multi-digit whole numbers.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

Number and Operations—Fractions

- Extend understanding of fraction equivalence and ordering.
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions.

Measurement and Data

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- Represent and interpret data.
- Geometric measurement: understand concepts of angle and measure angles.

Geometry

- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

GEOMETRY OVERVIEW

Congruence

- Experiment with transformations in the plane
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions

Similarity, Right Triangles, and Trigonometry

- Understand similarity in terms of similarity transformations
- Prove theorems involving similarity
- Define trigonometric ratios and solve problems involving right triangles
- Apply trigonometry to general triangles

Circles

- Understand and apply theorems about circles
- Find arc lengths and areas of sectors of circles

Expressing Geometric Properties with Equations

- Translate between the geometric description and the equation for a conic section
- Use coordinates to prove simple geometric theorems algebraically

Geometric Measurement and Dimension

- Explain volume formulas and use them to solve problems
- Visualize relationships between two-dimensional and three-dimensional objects

Modeling with Geometry

- Apply geometric concepts in modeling situations

Learning Progression of Domains



K	1	2	3	4	5	6	7	8	HS
Counting & Cardinality									
Number and Operations in Base Ten						Ratios and Proportional Relationships		Number & Quantity	
			Number and Operations – Fractions			The Number System			
Operations and Algebraic Thinking						Expressions and Equations		Algebra	
								Functions	Functions
Geometry									Geometry
Measurement and Data						Statistics and Probability			Statistics & Probability

Homework Connection



- Legislature has asked us to review nationally recognized quality standards from a variety states such as:
 - Florida
 - Massachusetts
 - Texas
 - Nebraska
- Compare and contrast with Idaho's Content Standards
- Consider:
 - Age appropriateness
 - Readability
 - Quality of content
 - Sequential nature

Focus from Letters



Include

Clear expectations on mastery of basic facts

Basic skills connected to real life

Prioritized most important concepts

Age and grade level appropriateness

Exclude

Supporting information

Guidance

Complex verbiage

Homework - Assignment#1



Essential Question: What do you think is important about the way standards are **formatted** so they are easily understood?

Choose two other states from the list of links in Edmodo:

1. Pick one page of their standards
2. Identify similarities and differences between the format of the Idaho standards and the two other states
3. Complete assignment #1 note catcher

Homework- Assignments #2



Essential Question: What does a student learn (**content**) in one state compared to another state?

Choose two other states from the links in Edmodo:

1. Pick a grade level
2. Identify what you notice and wonder after focusing on the content of standards from different states
3. Use the assignment #2 note catcher

Homework– Assignment #3



Essential Question: What do you see as the strengths and challenges of the Idaho Content Standards?

Use the SDE website to:

1. Review the current Idaho Content Standards for your subject area and grade band
2. What do you see as strengths of the current standards?
3. What do you see as challenges?
4. Post your thoughts in the content area discussion board on Edmodo

HOMWORK – ASSIGNMENT #4



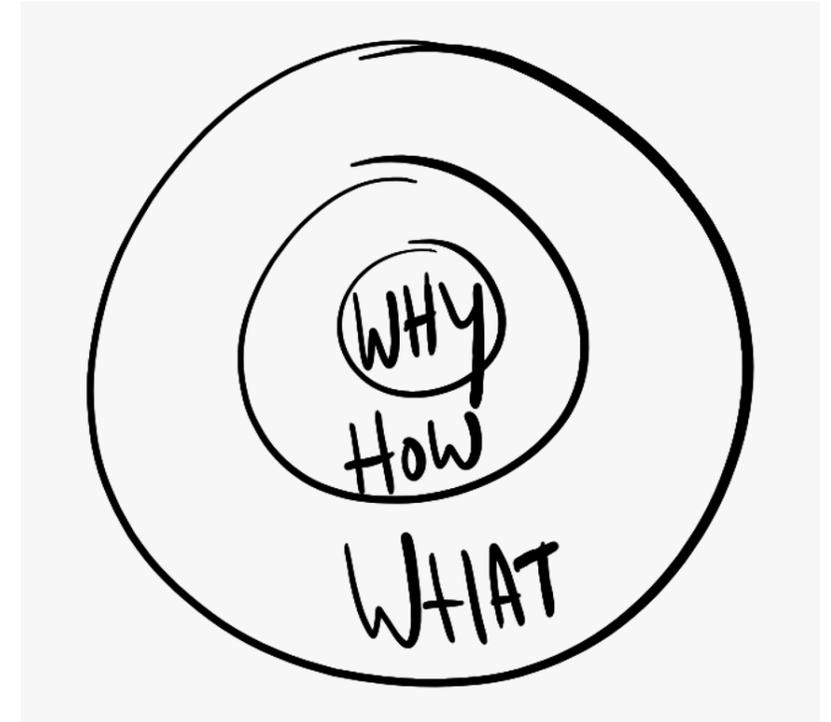
Code the present standards for your grade level band.

Yellow - What (Know or Do)

Pink – How (Strategies/Guidance)

Green – Why (Theory)

Underline Complex Verbiage



[This Photo](#) of Simon Sinek's Golden Circle (2017) is retrieved via Google images

HOMEWORK – ASSIGNMENT #4 Example 1



5.NF.5b

Interpret multiplication as scaling (resizing) by explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \cdot a)/(n \cdot b)$ to the effect of multiplying a/b by 1.

HOMEWORK – ASSIGNMENT #4 Example 2



8.SP.2

Know that straight lines are widely used to model relationships between two quantitative variables.

For scatter plots that suggest a linear association, informally fit a straight line, and informally assess the model fit by judging the closeness of the data points to the line.

Today we...



WHY

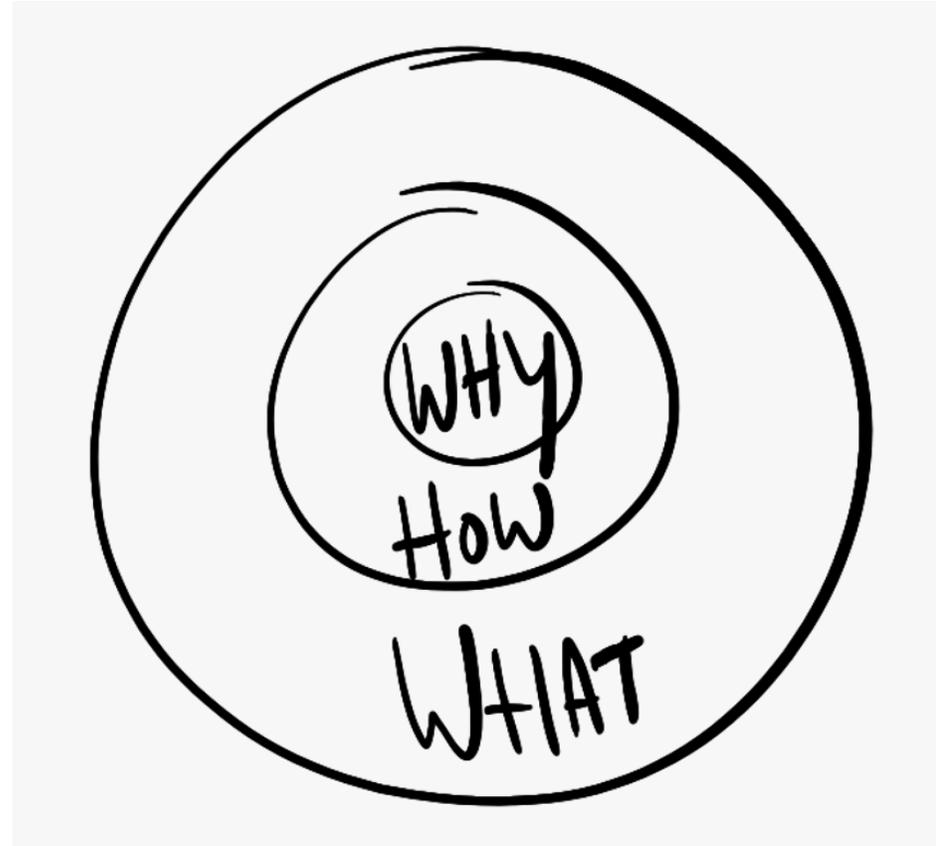
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August 3 we will...



- Summarize our Edmodo discussion
- Learn from other Idaho standards review committee work
- Small Group Break Out Work
 - Discuss learning from looking at other states

Put into Chat:

- Any additional questions?



<http://www.covermesongs.com/wp-content/uploads/2017/01/QA.jpg>

Wrap-Up Continued



Put into Chat:

- Take away points



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