Common Core Math and Literacy

In the Kitchen and Garden Classroom ———

Opening

Welcome!

Housekeeping

Introductions

Six Word Poem

What do you hope for your students after spending time with you in the garden or kitchen?

Agenda

- Intro to Common Core Math
- Model Lesson
- Variations and Extensions

- Intro to Common Core Literacy
- Model Lesson
- Other Considerations

Debrief and Application

Materials to Gather (optional)

- Newspaper
- Ruler
- Protractor
- Scissors
- Pencil
- Seeds (ideally, a variety of seeds that prefer direct sown in spring)

- A fruit or vegetable to taste
- Blank paper

Introduction to Common Core Math

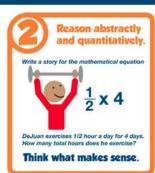
Strands

- Counting and Cardinality (K only)
 Numbers and Operations Base Ten (K-5)
 The Number System (6-8)
- Operations and Algebraic Thinking (K-5)
 Expressions and Equations (6-8)
- Numbers and Operations Fractions (3-5)
 Ratios and Proportional Relationships (6-8)
- Measurement and Data (K-5)
 Statistics and Probability (6-8)
- **Geometry** (K-8)

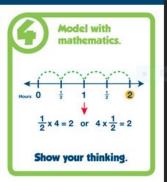
Practices

Standards for Student Mathematical Practice



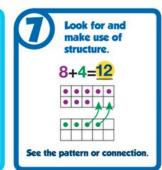












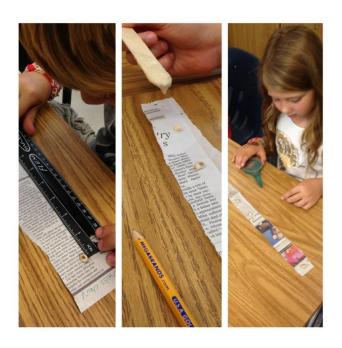


Model Lesson

Square Foot Gardening Examples

- 4 per square foot = lettuce, basil, marigolds
- 9 per square foot = bush beans, beets, spinach
- 16 per square foot = radishes, carrots, onions

Variations and Extensions









Breakout Rooms by Grade Level

Re-name yourself in Zoom to add the grade level you want to talk with other folks about.

Discuss:

- What types of math problems did you solve in this example lesson?
- What are some other favorite math lessons for your grade level?

Introduction to Common Core Literacy

Strands

- Speaking and Listening
- Language
- Writing
 - Opinion pieces
 - Informative texts
 - Narratives
- Reading
 - Foundational Skills
 - Literature
 - Informational Text

Practicing Language Skills with Food

Preparing Food

Connect to Language Arts (Sentence Structures)





2. Slice the strawberry



3. Discard the greens







in the compost bag.



at the sink.



on the cutting board.

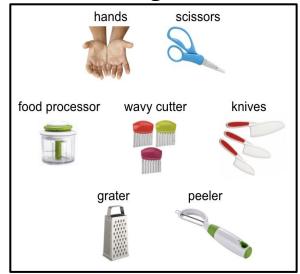
Preparing Food

Connect to Language Arts (Vocabulary)

A word wall is a displayed collection of frequently-used words or vocabulary, sometimes organized in meaningful groups.



Cutting Tools

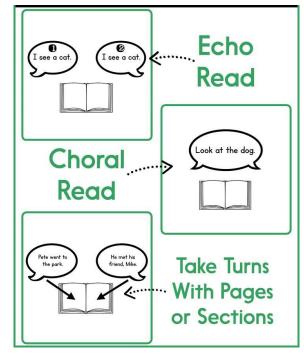


Preparing to Taste

Connect to Language Arts (Fluency)

As we sit around this table, Let's give thanks as we are able, To all the farmers we'll someday meet, That helped grow this food we eat.





Preparing to Taste

Connect to Language Arts (Sign Language)

As we sit around this table,

Let's give thanks as we are able,



To all the <u>farmers</u> we'll someday meet,



That helped grow this food we eat.



Taste!

Describing Food

Connect to Language Arts (Vocabulary, Parts of Speech)

A word wall is a displayed collection of frequently-used words or vocabulary, sometimes organized in meaningful groups, such as parts of speech.

Tasting Adjectives

Taste			Texture			
sweet	sour	salty	bitter	savory	dry	crunchy
hot	strong	tart	tangy	plain	moist	crumbly
buttery	mild	mellow	fresh	ripe	greasy	chewy
burnt	zesty	spicy	refreshing	fruity	crispy	juicy
flavorful	sharp	peppery	pickled	rich	gooey	creamy

Describing Food

Connect to Language Arts (Fact or Opinion)

I liked it!

I loved it!

It's delicious!

Delectable!

So appetizing!

I didn't care for it.

I don't like it yet.

It's not my favorite.

I'll try it again later.

I may like it prepared differently.

Clean-up

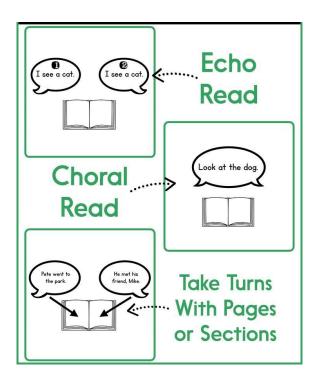
Connect to Language Arts (Fluency)

"Add it to the pot.

Let it all rot,

For compost stew!"





Writing about Food

Randomly Assigned Breakout Rooms

10 minutes, in groups of 3-4

Select a writing prompt on the slides to complete together as a group about one of the fruits or vegetables a group member tasted.

Assign one group member to be the recorder and remember your breakout room number. Groups will be randomly selected to share!

Adjectives to Acrostics

Connect to Language Arts (Parts of Speech)

Adjectives to Describe Taste	Adjectives to Describe Texture	Adverbs to Add In Front
Bitter Burnt Burnt Buttery Delectable Delicious Flavorful Fresh Fruity Hot Irresistible Mellow Mild Peppery Pickle Plain Refreshing Rich Rich Ripe Salty Savory Sharp Sour Spicy Strong Sweet Tangy	Chewy Creamy Crispy Crumbly Crunchy Dry Gooey Greasy Juicy Moist Adjectives to Describe Look Red Orange Yellow Green Blue Purple Black Brown Tiny Small Large	Always Exactly Fortunately Frequently Generally Hardly Never Normally Occasionally Often Only Just Perfectly Rarely Seldom Seriously So Sometimes Unexpectedly Usually Very
TartZesty	HugeRoundFlat	

Name:
S
T
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B
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R
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Y

Hungry Haikus

Connect to Language Arts (Syllables)

Haiku - a type of short form poetry originally from Japan. Traditional Japanese haiku consist of a kigo, or seasonal reference.

		(title)
	Ву:	
BROCCOLL SO GREEN SAUTÉED ROASTED STEAMEDOR RAW ANY WAY, TASTY		(5 syllables)
		(7 syllables)
		(5 syllables)

4.

Step-by-Step Sentences

Connect to Language Arts (Sequencing)

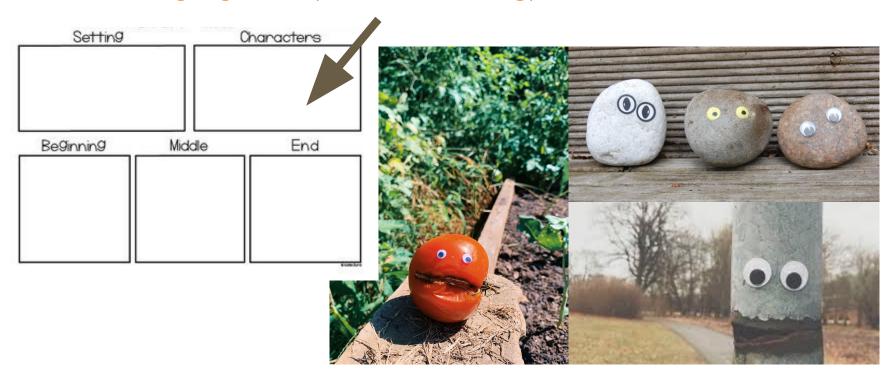
- Garden how-tos
- Cycle hunts
- Recipes

Title:	_
Ву:	40000
First,	•
Then,	_
Next,	_
Last,	



Found Faces

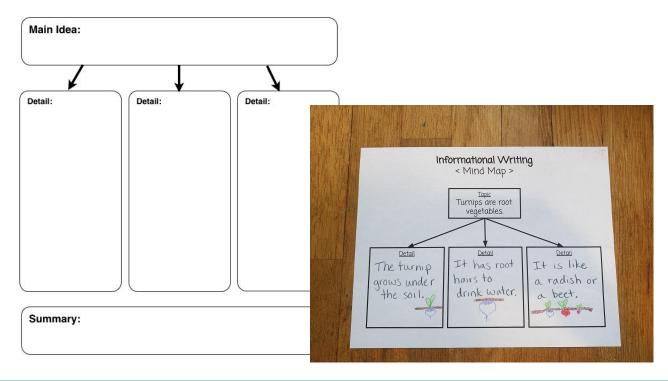
Connect to Language Arts (Narrative Writing)



Finding the Facts

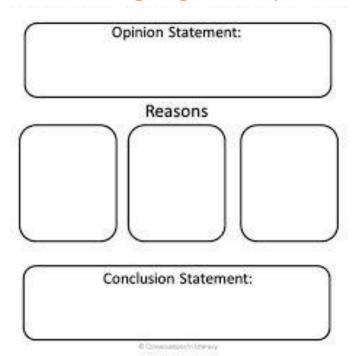
Connect to Language Arts (Informational Writing)





Persuasive Paragraphs

Connect to Language Arts (Persuasive Writing)

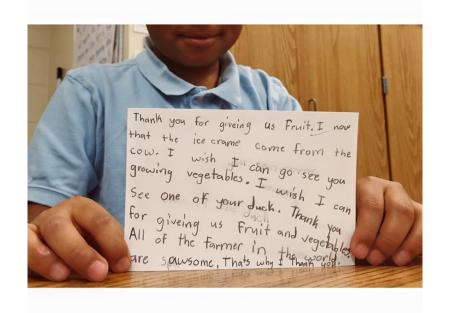




Thank a Farmer

Connect to Language Arts (Letter Writing)

Dear Farmer	,
Thank you for	
	·
Signed,	



Poetry / Simile, Metaphors, Analogy

Connect to Language Arts

Simile

A simile is a rhetorical device used to compare two things using the words "like," "as," or "than."



as big as a mountain



like music to my ears

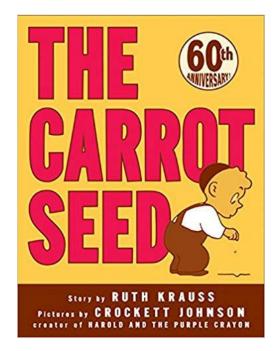
	Dandelions
	Danaellong
	Dandelions bloom like little suns.
	Dandelions bloom like little suns. But the flowers don't last long—
	ey fold up like furled umbrellas pointing at the sky.
, th	
	Then each rolled umbrella opens
	into a puff of down:
a nund	red fluffy parachutes, each carrying a small brown seed.
1 ±	Just one blow and you can set them flying.

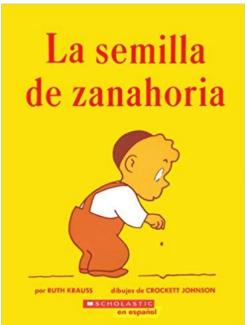
Name:
The strawberry is as
as a
and as
as a
The strawberry is like a

Reading about Food

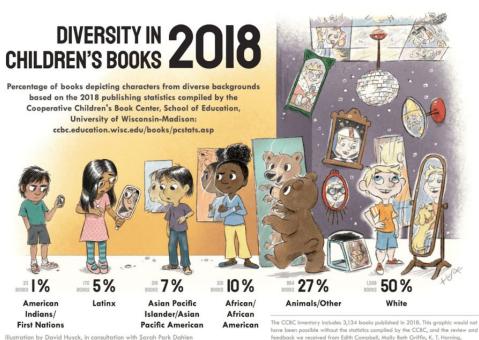
Selecting Children's Literature

What language(s) are the books written in?





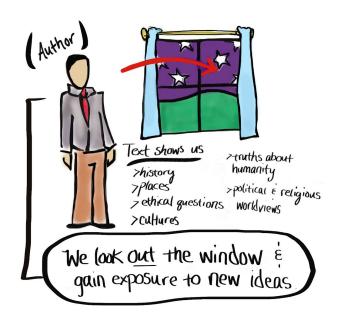
Who is represented in the books?

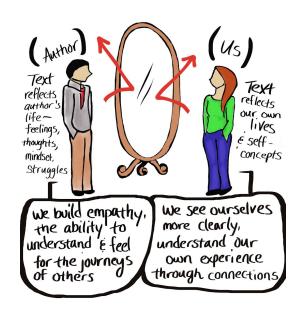


Debbie Reese, Ebony Elizabeth Thomas, and Madeline Tyner, Many thanks,

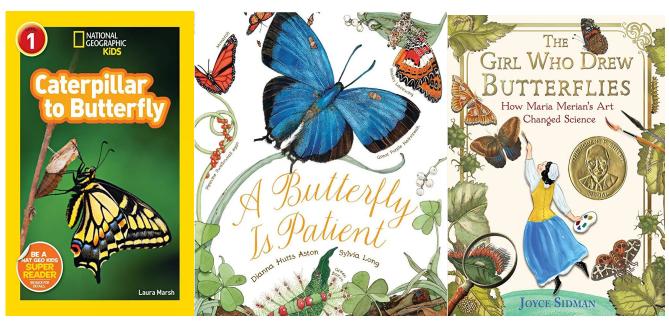
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Who is represented in the books?





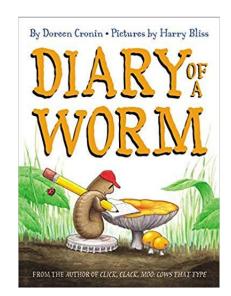
Can I offer a variety of text types?



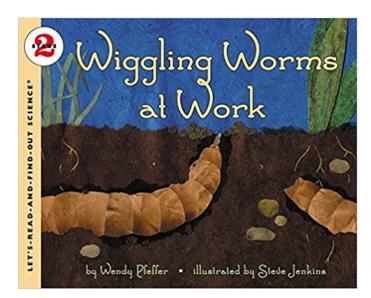
informational poetry biography

What is the reading level and length? How will it be read?

- Read the pictures
- Read the words
- Guided reading
- Read aloud
- One sitting
- Multiple sittings



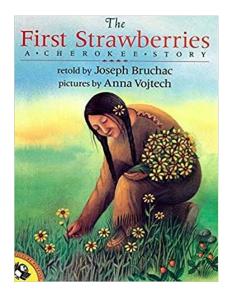
In small groups, read pictures or read words

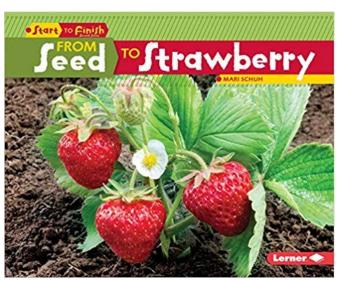


Read aloud, a few pages before each class

Other Considerations

- You don't have to read the whole book
- You are allowed to change the words ;)



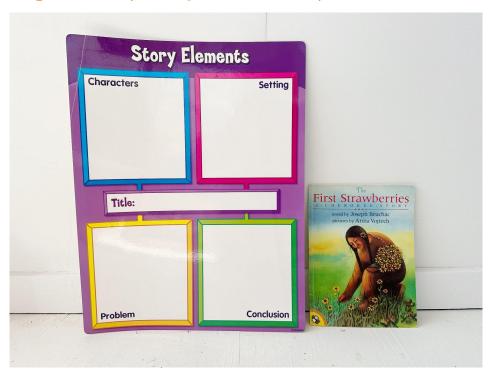


Reading about Food

Teaching Reading Skills

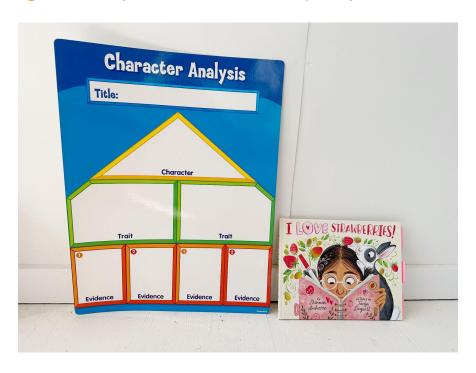
Reading Fiction/Narrative Stories

Connect to Language Arts (Story Elements)



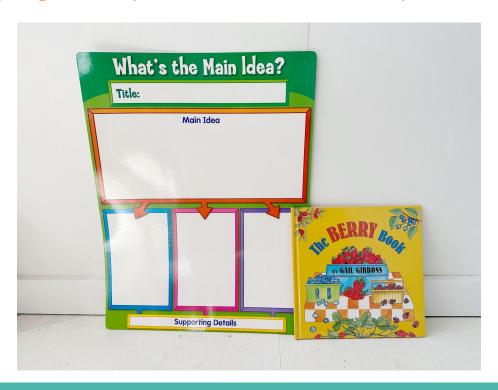
Reading Fiction/Narrative Stories

Connect to Language Arts (Character Analysis)



Reading Non-Fiction/Informational Texts

Connect to Language Arts (Main Idea and Details)



Reading Non-Fiction/Informational Texts

Connect to Language Arts (Sequencing)



Reading Non-Fiction/Informational Texts

Connect to Language Arts (Vocabulary)



Closing

Thank you!

Please complete the survey

(link in chat)

Stick around for Q&A