

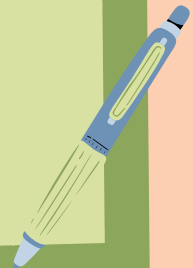
Building Research Consistency K-12

By
Dr. Georgina Trebbe

Gilmore &
Deos, 2020

What is Curriculum...

- Broad learning goals, standards
 - Leading to learning objectives
- A progression of knowledge and skills students acquire
- Units, Lessons & Pacing guide
- Assessments & Assessment outcomes
- Learning engagements
- Resources & Materials
- Vertical Alignment
- Integration of ways to remove barriers to learning
- Opportunities to differentiate.

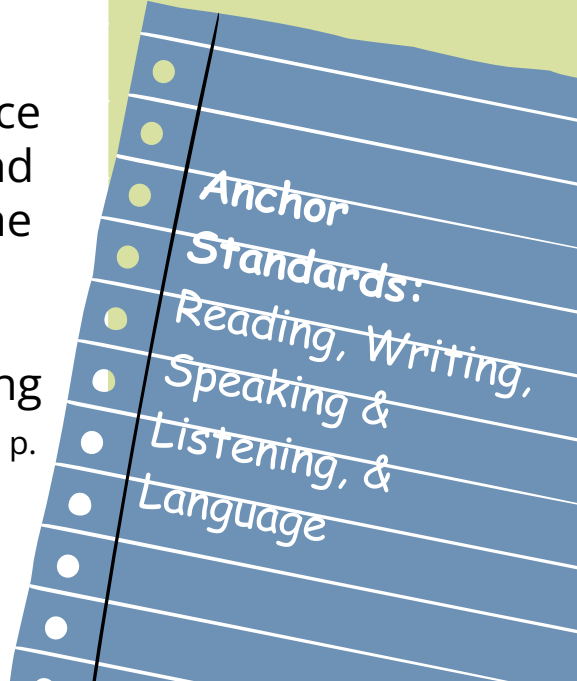


A red book with a white label and a yellow pencil with a black eraser and a sharpened lead tip are positioned on the left side of the slide.

Let's Situate Ourselves

English Language Arts

ELA teachers have a time-honored “place in developing students’ literacy skills and literary understanding while at the same time recognizing that teachers in other disciplines have a particular role in developing students’ capacity for reading and writing informational text” (ELA, DESE, p. 11)

A blue lined paper with white horizontal lines and yellow circular bullet points is shown on the right side of the slide.

Anchor
Standards:
Reading, Writing,
Speaking &
Listening, &
Language

Why Combine ELA & Research



ELA skills continues K-12



Informational Text



Letter Knowledge
Vocabulary
Cause & Effect
Auditory Discrimination
Vocal Skills
Fluency
Visual Memory
Visual Discrimination
Phonological Awareness

Comprehend Text
Retelling Story
Predicting
Genre understanding
Writing Techniques & Mechanics
Critical Thinking
Decoding
Research to Build Knowledge

Locate & Analyze Information
Synthesize Information
Argue w/ Evidence
Understand Theoretical Concepts
Computer Literacy
Effectively Write
Data Visualization
Medial Literacy
Digital & Information Literacy

Research K-12

Mindset



- Curiosity
- Willingness to adjust & relook
- Discover something new
- Check to make sure it's true
- Share what is learned
- Give credit



Research K-12

Acknowledgement



Always prepare to:

- Plan for barriers to learning (UDL)
- Differentiate on the spot (DI)
- Always Model
- Arrange Students: individually, whole group & small groups





Research

Our Plan....

- Let's Try It: Building a Research Plan
- Consider grade and age differences



Secondary	Concepts	Elementary
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Let's try together

Research Pre-Search

- What is my teacher asking me to do?
- What do I know already?
- WH- questions...
 - Who, what, when, why, & how
- Pre-search
 - Initial Boolean searching
 - **READ**
- Aha Moment!!





Guiding the Learning

Research Pre-Search

Elementary		Secondary
Grade Level Guided	Teacher Goal	Grade Level Guided
Whole Group & Groups	KWL	Groups or Individual
Select keywords together	WH Questions	Select keywords
Pre-selected text Teacher read/ student read	Pre-Search Read	Pre-selected or Individual selected text or databases
Report out	AHa Moment	Report out





Aha Moment
Will
Focus Research



Let's try together

Research Thesis Statement

Developing an Argument

- **Topic + Take + Why** (How)=Thesis Statement
 - **Topic**- Aha moment, the focus
 - **Take**-What is the phenomenon? What do I deduce?
 - **Why** (How)-Reasoning for the phenomenon





Research Thesis Statement

Elementary		Secondary
Group or Group(s)	Topic	Individually: Group concepts
Teacher Guided or Fun Small Group Activity <i>What do you think?</i>	Take	Individual Thinking <i>What is your opinion?</i>
Teacher Guided or Small Group Activity <i>Why is that happening?</i>	Why	Individual Thinking Group Report Out <i>Why is your opinion happening ?</i>



Thesis Statement

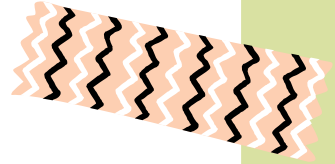
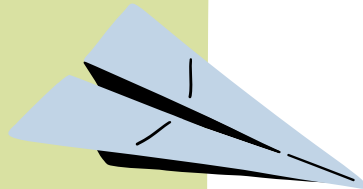
Examples

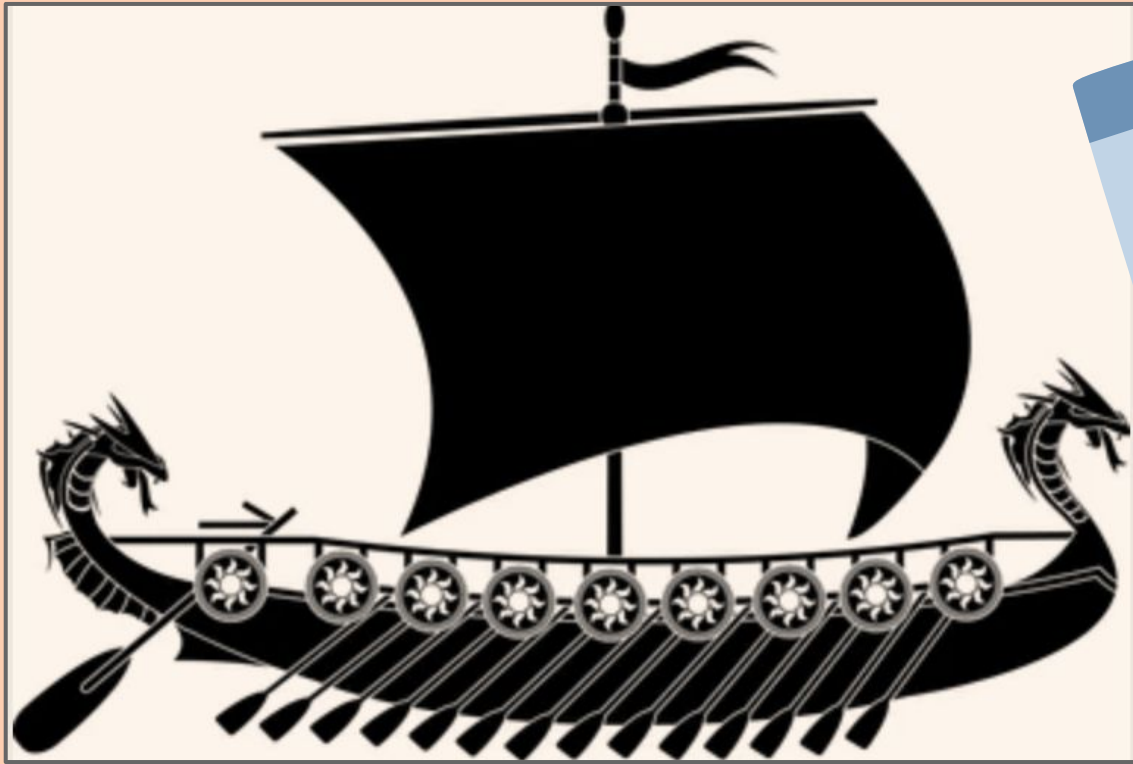
Elementary

Beavers can build homes made of wood because their teeth cut through trees and branches.

Secondary

New England Puritan society experienced increases in religious hysteria and a belief that witchcraft existed as a result of social tensions caused by a declining economy.





Thesis steers
the research.

What about the oars?
These become Research Questions.



Let's try together

Research

Lenses: Research Questions

- Political
- Social
- Historical
- Legal
- Business
- Governmental
- Philosophical
- Scientific
- Futuristic

- Psychological
- Technological
- Artistic
- Cultural
- Ethical
- Economic
- Environmental



Lenses: Research Questions

Elementary

Scientific

How does a beaver's teeth help to build a home of wood?

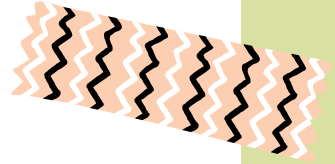
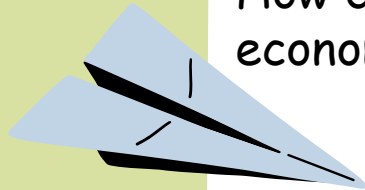
Secondary

Social

How did witchcraft influence New England's Puritan society?

Economic

How did the New England Puritan economy work?





Let's try together

Research

Perspective: Sub-Research Questions

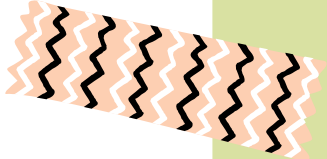
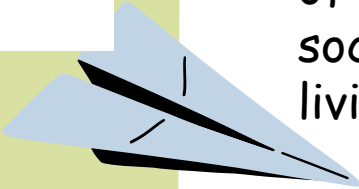


Perspective: Sub-Research Questions

Secondary

Economic

- How did the New England Puritan economy work?

- 
- What were the primary products produced by the New England Puritans?
 - Who prospered within the New England Puritan society?
 - How was the work divided in New England Puritan society?
 - What happened if a member of the New England Puritan society could not earn a living?
- 

Perspective: Sub-Research Questions

Elementary

Scientific

How does a beaver's teeth help to build a home of wood?

Elementary

Whole group/ Small groups

Curiosity Questions

- How do beavers cut wood with their teeth?
- Are beaver teeth strong?
- How do beavers use their teeth to move wood?
- What other ways do beavers use their teeth to build homes?



Let's try together

Research

Outline Forms Research Plan

Introduction

- Research question/ Lens 1
- Research question/ Lens 2
 - Perspective 1
 - Perspective 2
 - Perspective 3

Conclusion





Secondary Research

Outline Forms Research Plan

Introduction: Thesis- *witchcraft, NE Puritans, tension, economics.*

- Research question/ Lens 1- *Social*
- Research question/ Lens 2- *Economic*
 - Perspective 1- *Products produced*
 - Perspective 2- *Prosperity*
 - Perspective 3- *Work division*
 - Perspective 4- *Inability to work*

Conclusion





Elementary Research

Outline Forms Research Plan

Introduction/ Opening-*Beaver's cut wood to build homes*

- Research question/ Lens 1- *Beaver Teeth*
 - Perspective/ Curiosity 1- *Beaver Teeth Cutting*
 - Perspective/ Curiosity 2-*Beaver Teeth Strength*
 - Perspective/ Curiosity 3- *Beavers Build with Teeth*

Conclusion/ Closing-





Let's try together

Research

Keywords & Keyword Phrases

- **List keywords & possible alternative words**
 - From research questions/ lenses & perspectives
 - Never use pronouns
- **Secondary:** Boolean Search w/ Grade appropriate tools
- **Elementary:** Read pre-selected materials & locate keywords



Research

Keywords & Keyword Phrases

Alternative Words

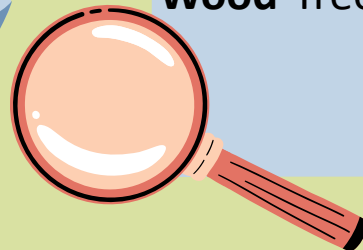


Secondary

New England
Puritan
Religious-Religion
Hysteria-Panic- Alarm
Prosper-Progress-Successful
Economy- Business-Finance
Earn a Living-Work
Witchcraft

Elementary

Beaver
Teeth
Build- Construct-Make
Home-Lodge
Wood-Tree-Branched





Research Search Strings

Direct Students to Write Out Search Strings

Secondary

Puritan *and* economy or business *and* products





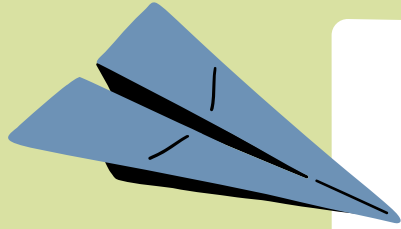
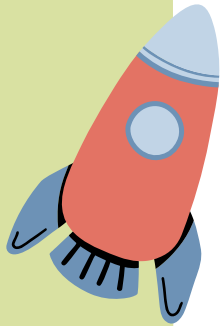
Research Search Strings

Writing Out or Verbalizing Search Strings
Reinforces Vocabulary & Meaning

Elementary

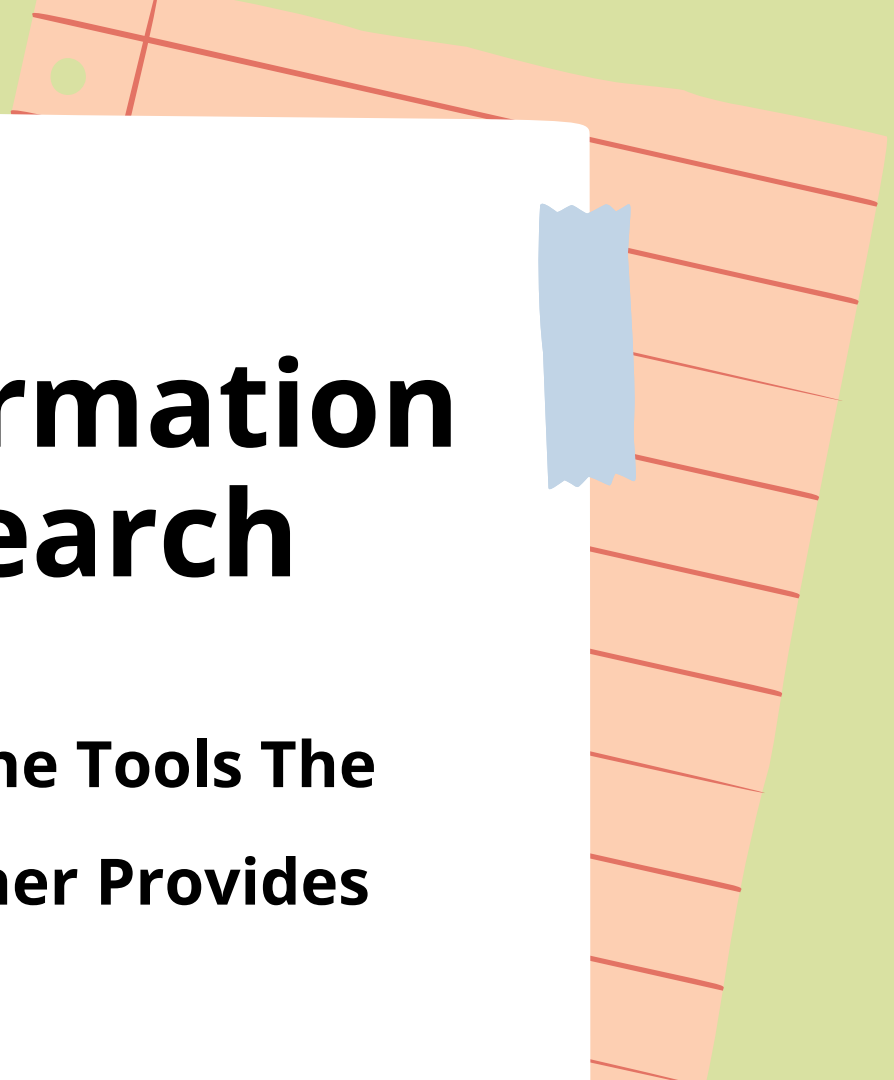
Beaver *and* Teeth *and* Tree or Branch



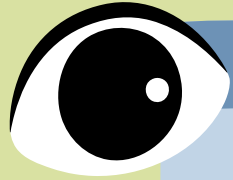


Information Search

**Use the Tools The
Teacher Provides**



Selecting Resources



Evaluation

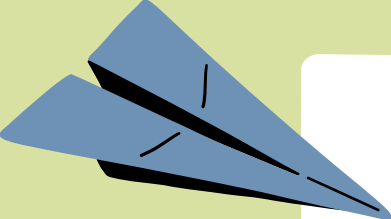
Determine
Authority, Credibility,
Currency, Purpose &
Triangulation



Librarians have this!

Relevancy

Determining which
information answers
the research questions
& support the thesis.



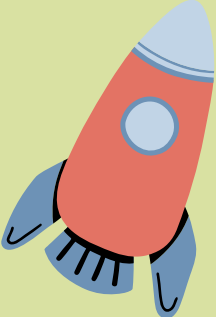
Record Information



Thesis Statement _____

Lens _____

Research Question _____

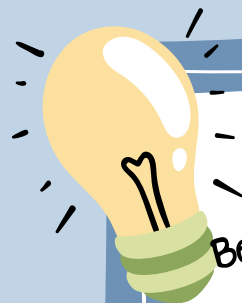


Quote	My Take	Citation

Outline

Graphic Organizer

Sentence Outline



Beyond the Paper & Poster

- Make a board game
- Visual/ photo display
- Create a model
- Write a comic
- Class mural
- Class book
- Produce a play
- Create a news cast
- Create a documentary



Research Reporting

- Write a lab report
- Create an awareness campaign
- Make a Bloom Ball
- Create a Quiz
- Create a travel brochure
- Make a timeline
- Create a diorama
- Write a speech
- Create a website





Elementary Literacy Activities & Research

- Teacher read-aloud
- Choice board
- Student performance
- Draw and crafting
- Ear Reading- Listening & Reading together
- Group Read-Investigate-Write
- Pair with higher grade buddy
- Web/ Software based programs
- Traditional read & write project
- Involve families



Build Citation Awareness

Elementary



Secondary

Gradually Build Appreciation for the Creativity of Others



Title
Author
Illustrator

MLA

Cite a Book

MLA

Cite a Book,
Webpage &
simple article

**Understanding
APA & MLA**

The containers and parts
of information



Thank You

Georgina Trebbe

gtrebbe@hwrzd.org

gtrebbe@gmail.com

