

Long-Term Transfer Goal

"Students will be able to independently use their learning to ..."



An effective curriculum equips learners for autonomous performance ... by design!

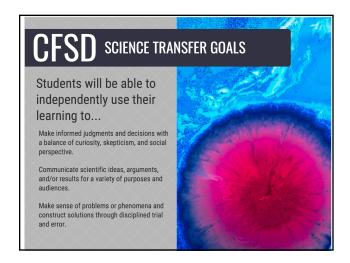
Transfer Goal: Writing

Students will be able to independently use their learning to:

 Effectively write in various genres for various audiences and purposes (inform, explain, entertain, persuade, guide, or challenge/change things).

Transfer Goals: Mathematics

- Make sense of never-before-seen, "messy" problems and persevere in trying to solve them.
- Construct viable arguments and critique the reasoning of others.



Humble POG are Long-Term Transfer Goals!

- **Communicator**
- ► Global Citizen
- Critical Thinker
- Creative Innovator
- ► Leader & Collaborator
- Personally Responsible

T-Chart Pro	ocess		
What would we see in a critical thinker	A non-critical thinker		
•	•		
•	•		
•	•		
•	•		
•	•		
•	•		

Can only apply what was taught in the

Indicators of a non-Critical Thinker Indicators of a Critical Thinker Asks critical questions Does not question Remains "skeptical" Gullible Ouestions the accuracy, validity, Accepts things at face value reliability of information Does not seek other perspectives Deliberately seeks different points Narrow - only sees one perspective of view and considers their merits Egocentric Able to identify personal and Fails to self monitor cultural biases Doesn't revise or value revision Self assesses/monitors progress and Needs others to tell them how they're adjusts as needed doing Reflects on experience Impulsive Deliberative Seeing things in isolation Views problems on a "macro" and Sees things as "black or white" Can't support their position/answer "micro" level Recognizes "shades of grey" Does not provide evidence or doesn't Can provide a rationale/support for know what evidence to use their position/answer Only wants "the" answer Uses evidence to prove/disprove Uncomfortable with ambiguity

Thrives with questions

situations

Comfortable w/ ambiguity Can transfer learning to new





A coherent curriculum spirals around a set of "big ideas" and recurring essential questions.

Mathematical Modeling



"Big Idea" Understandings

- Mathematicians create models to interpret and predict the behavior of real-world phenomena.
- Mathematical models have limits and sometimes they distort or misrepresent.

Mathematical Modeling



Essential Questions

- How can we best model this (real-world phenomena)?
- What are the limits of this model?
- How reliable are its predictions?

Argumentation



"Big Idea" Understandings

- A convincing argument requires a clear position, logical reasoning and support with evidence.
- An effective argument contains rebuttals to possible objections.

Argumentation



Essential Questions

- What makes an argument persuasive?
- What are possible objections to my argument? How might these be countered?



Next Generation Science Standards

6. Structure and Function. The way in which an object or living thing is shaped and its substructure determine many of its properties and functions.

How are structure and function related:
... in living things?
... in nonliving things?

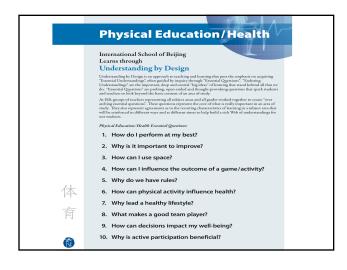


Next Generation Science Standards

Includes eight *Practices for K-12 Classrooms. Example:*

7. Engaging in argument from evidence

What makes a credible argument? What constitutes effective evidence?



cor·ner·stone (n):

- 1. the first stone laid at a corner where two walls begin and form the first part of a new building
- 2. something that is fundamentally important to something





Cornerstone Tasks



- Anchor the curriculum in important, recurring tasks.
- Require understanding and transfer of learning.
- Integrate 21st century outcomes.
- Provide evidence of authentic accomplishments.

("Doing the subject" and "playing the game")

Transfer Goal: Writing

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A Macro Curriculum and Assessment System for 21st Century Learning

Cornerstone Assessments in Writing (6-12) GREECE CENTRAL SCHOOL DISTRICT, NY					
GRADE	Expository	Persuasive	Literary Analysis	Creative/ Expressive	
Grade 6	Research report	Position paper	Literary essay on setting or conflict	Original myth	
Grade 7	Autobiography	Policy evaluation	Literary essay on character	Persona writing	
Grade 8	Research report	Problem/ solution essay	Literary essay on symbolism	Narrative fiction	
Grade 9	Cause/effect essay	Editorial	Analysis of multiple literary elements	Poetry	
Grade 10	Research report	Social issue essay	Critical Lens essay	Historical Persona	
Grade 11	Definition essay	Argumentative essay	Comparative genre essay	Parody/satire	
Grade 12	Research paper	Position paper	Response to literary criticsm	Irony	

