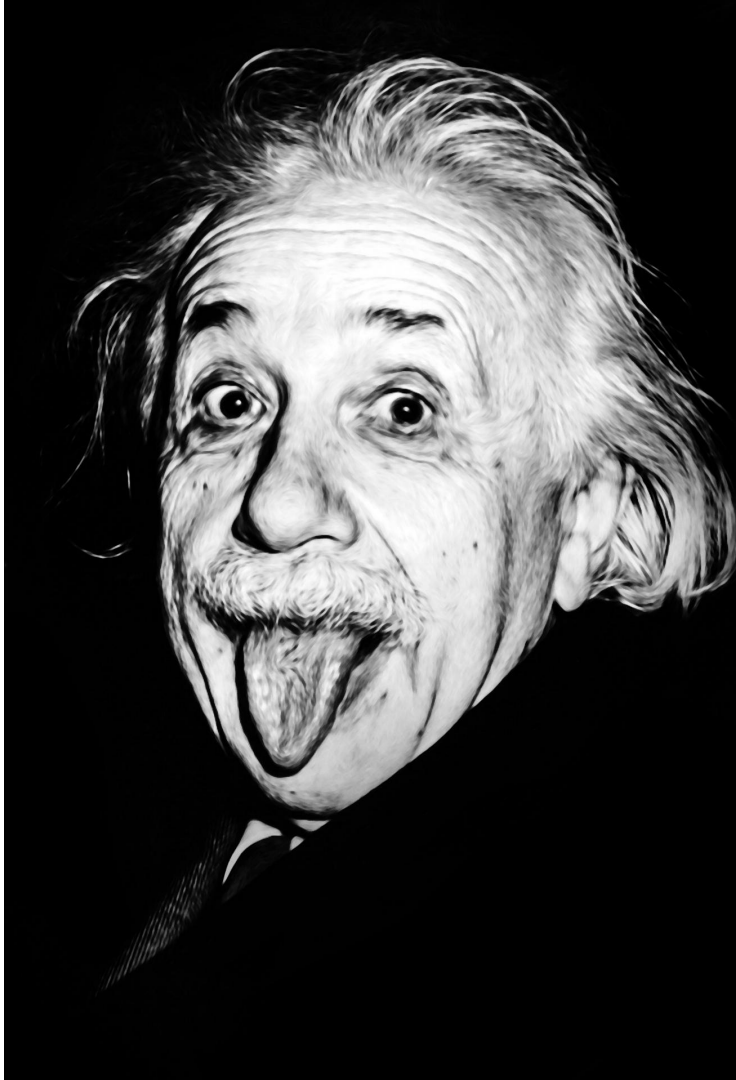
Depth and Complexity Prompts and their Icons: An ***Introduction***

Reagan Elementary
May 26-27, 2020

“Education is not the learning of facts, but the training of the mind to think.”

-Albert Einstein



Today's goal: Understanding the parts of the Depth and Complexity Framework so that you may employ the prompts/icons to differentiate your students' thinking within any content.

Origins:

The Depth and Complexity Framework was developed by Sandra Kaplan, clinical professor in learning and instruction at USC's Rossier School of Education. They were created through her research into the knowledge types which distinguish experts in a particular field of study from others with only a surface knowledge.

Expert Knowledge

Expert knowledge is defined as having depth and complexity.

Deep understanding is knowing the language, details, patterns, rules, trends, unanswered questions, ethics and big ideas which make up a topic's content.

Complex understanding is gained by examining the the change in the topic over time, different perspectives of the topic, and how it connects to others disciplines.

Why create the icons?

The icons were created as a tool to give teachers and students a way to quickly identify the types of thinking needed to move toward expert knowledge of a given topic or content area.

Why use the Icons? **“Thinking tools”** for your students.

- Challenge advanced learners by directing them to extend their understanding of the area of Study.

- Encourages students to approach content by “Thinking like a Disciplinarian.”

Think like a… geographer, historian, physicist, economist, mathematician, etc...

More why?...

- Provide students with tiered assignments, tiered lessons, and independent projects to make certain that advanced students are challenged and that struggling students catch up to grade level standards.

- Create a differentiated experience for ALL LEARNERS, of ALL AGES, in ALL SUBJECTS.

Student goals:

DEPTH

The goal of Depth is to help students to expand their knowledge and expertise while maintaining a balance with the academic content.

COMPLEXITY

The goal of Complexity is to challenge students to make connections
across disciplines, both over time and between disciplines.

Introducing the Icons:

https://www.jtayloreducation.com/dciconintrovideos/

Depth and Complexity Videos

Icons of Depth

- Requires students to uncover more details and new knowledge surrounding a topic of study.
- Encourages students to view a topic from different perspectives and see patterns and connections.
- Students study a topic from the known to the unknown and from the concrete to the abstract.
- Students examine a topics by identifying facts, concepts, principles, generalizations, and theories related to it.

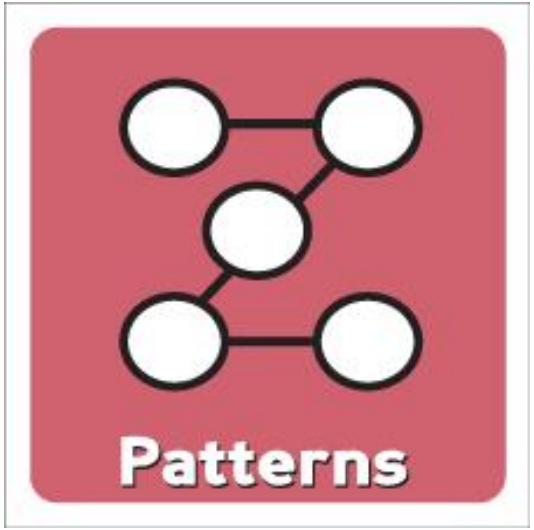
Language of the Discipline

Terminology, tools, jargon, signs and symbols of the discipline.

Details

Facts, features, traits, parts, particulars of a topic.

Patterns

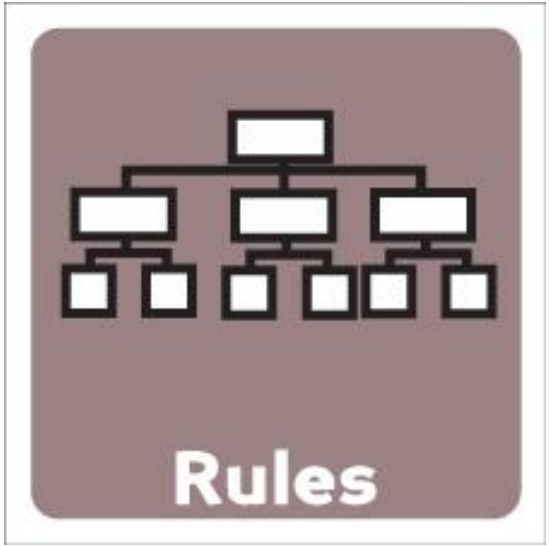


Predictive, cycles, repetitive, person-made and natural, recurring

Unanswered Questions

An unknown, unexplained, unsolved, doubtful, uncertain

Rules



Standards, structure, directions for conduct or procedure, methods, organization.

Trends

General tendencies, influences, drifts, current styles.

Ethics

Controversies, biases, prejudices, moral values, decision making.

Icons of Complexity

- Students make relationships, connect other concepts, and create layers of understanding.
- Students build bridges to other disciplines, enhancing the meaning of content.
- Students examine ideas and concepts to a more sophisticated degree.
- Students discover associations among diverse topics and subjects.
- Students create multiple solutions from different points of view.

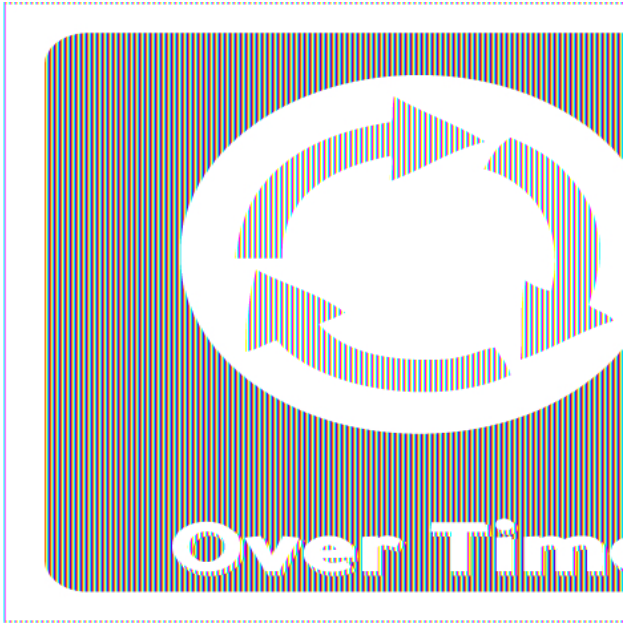
Big Idea

Generalizations, overarching, developed from many facts or instances

Across the Disciplines

Multidisciplinary, interdisciplinary, touching multiple subjects at once

Change Over Time



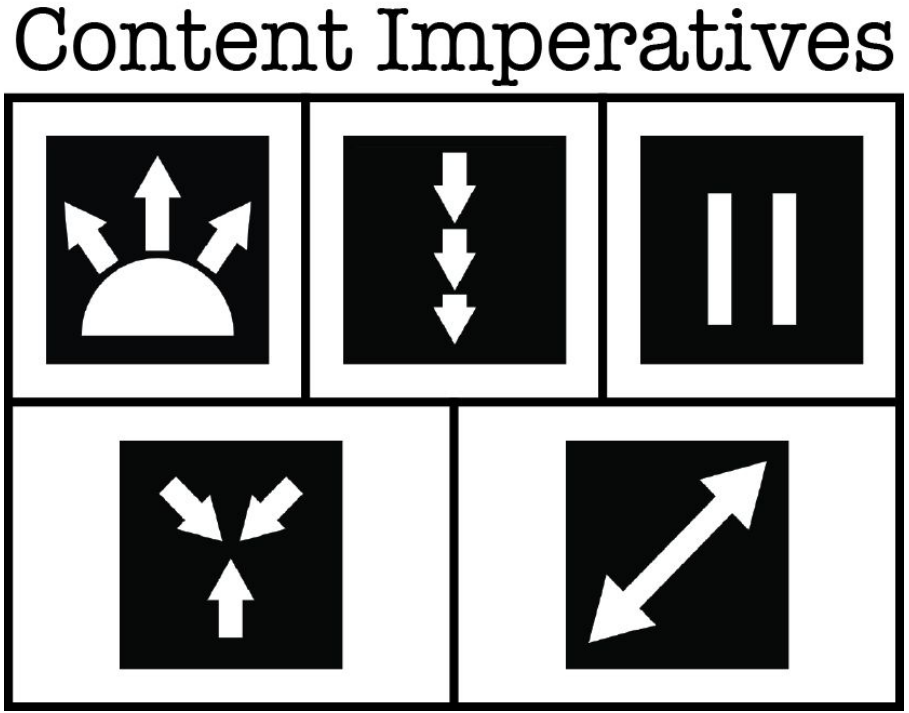
Viewing past, present, future, noting change, prediction based on current knowledge

Multiple Perspectives

Different points of view or ways of seeing things.

Content Imperatives

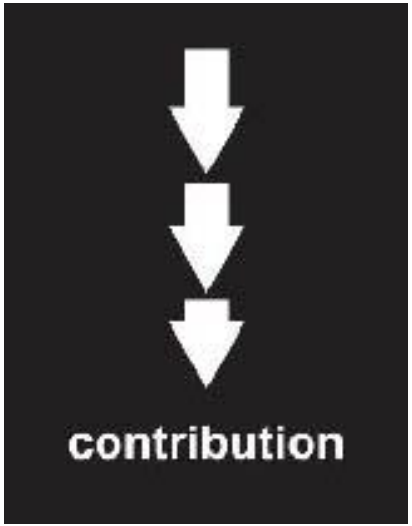
https://www.jtayloreducation.com/the-content-imperative-prompts-icons/



Origin

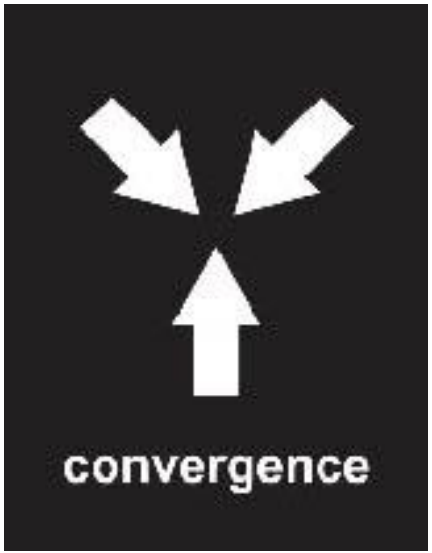
Beginnings, roots, foundations.

Contribution



Lasting effects, influence upon people.

Convergence



Events which merged, happened in a particular order, etc. to end in a particular result.

Paradox

Contradictory elements of an opinion, statement or event.

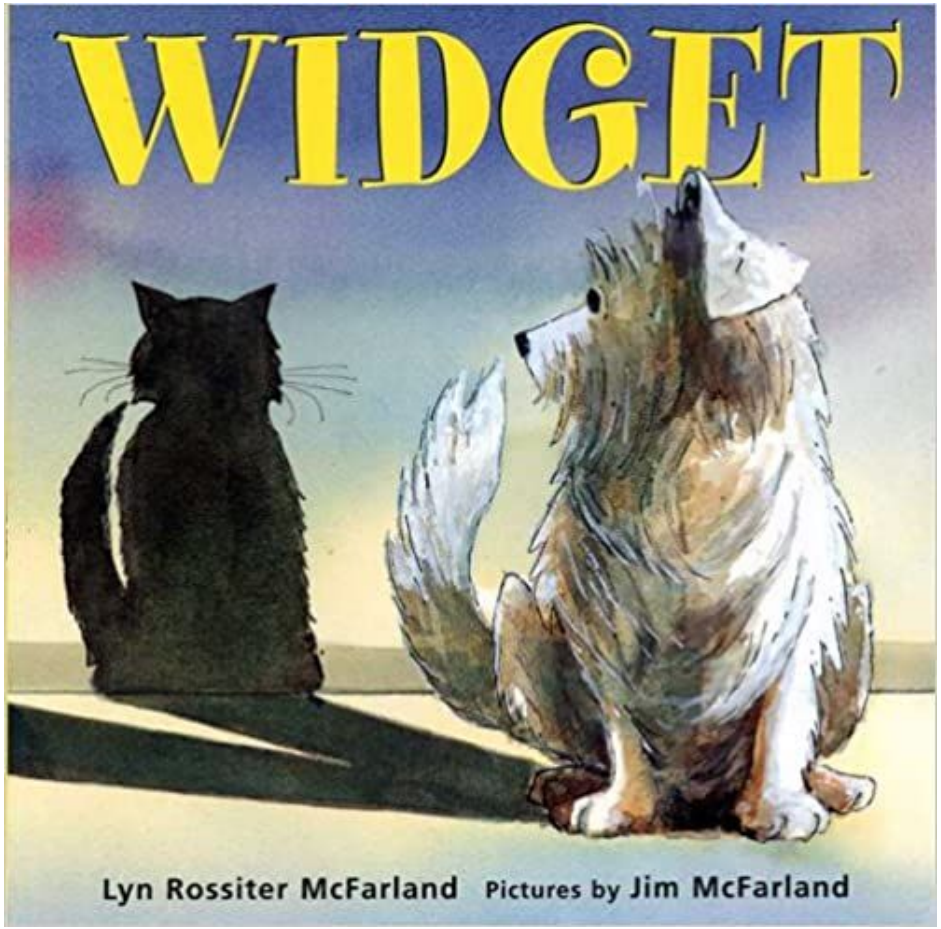
Parallel

Similarities, comparisons of events, peoples, problems.

Task Statements: Differentiation equations to develop individualized learning objectives.

[T/S+(C+D/C)+R/S+P]

- T/S=Thinking Skills
- C=Content
- D/C=Dimensions of Depth and Complexity
- R/S=Resources and Research Skills (how will you teach and what will you need?)
- P=Product (evidence of student learning)



Read a story… Widget

Assign icons: Details, Patterns, Ethics, Change Over Time.

Listen with your focus and reflect on your icon.

Record your findings.

Share together into frame.

Samples/Ideas from the D&C pbvU class

Norton Simon Artist - Dustin Schonauer

See other student samples in the Google Classroom:

https://classroom.google.com/c/NTEzNzQzNDMwODRa

Samples from Kim Tredick

Intro Depth and Complexity Icons

PBVUSD

Resources to explore:

jtayloreducation.com

Byrdseed.com

envisiongifted.com