

Great ideas need landing gear as well as wings

Developing appropriately challenging curriculum for all students

- Clear focus
- Providing opportunities for in-depth learning
- Organized
- Coherent
- Engaging
- Using old learning with new one
- Joyful/satisfying
- Choices
- Meaningful collaboration

- Products that matter
- Connections with real life
- Fresh
- Real, purposeful
- Rich
- Profound
- Problem solving
- Setting goals
- Stretches the student

The Power of the Teacher as Curriculum Decision Maker

- The teacher has the power to:
 - Differentiate content
 - Differentiate process
 - Differentiate product

Dimensions of Depth and Complexity

- The following icons are designed to facilitate the understanding of depth and complexity within content at different levels of sophistication
- These icons should be introduced one at a time
- Once various dimensions are learned by the students, the icons can be combined to extend the depth of their learning

Language the Disciplination



Key Questions

- What terms or words are specific to the work of the ____(disciplinarian)?
- What tools does the __(disciplinarian) use?

Looking at Depth:

- Specialized vocabulary
- Skills and tasks specific to the discipline
- Tools used
- Benefit to society

Examples

Describe the causes and effects of a historical event using the language of a sociologist, such as a group organization, group interaction, and group socioeconomic factors. (Social Studies)

Key Questions • What are its attributes? • What features characterize this?

Looking at Depth:

- **Elaboration**
- Identify attributes
- > Parts
- > Factors

What distinguishes this from other things?

define this?

What specific elements

- Describe the many and varied details that relate to this event in History. (Social Studies)
- State the details affecting the operations needed to solve this problem. (Math)

Key Questions What are the recurring events? What elements, events,

Looking at Depth:

- Identify reoccurring elements or events
- Determine the order of events
- Predict what comes next

- What elements, events, ideas, are expected overtime?
- What was the order of events?
- How can we predict what will come next?

- Describe the patterns of erosion. (Science)
- Provide evidence to substantiate the pattern(s) of the characters' behaviors. (Language Arts)

Key Questions What ongoing factors have influenced this study? What factors have contributed to this study?

Looking at Depth:

- Note factors that cause events to occur
 - Social
 - Political
 - Economic
 - Geographic
- Identify patterns of change over time

- Describe the changes in communication over time.
- Identify trends in the characters' behaviors.

Unanswered Key

Key Questions

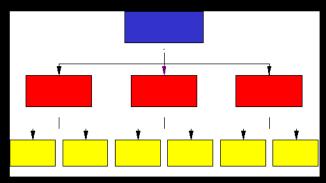
- What is still not understood about this area/topic/study/discipline?
- What is yet unknown about this area/logic/discipline?
- In what ways is the information incomplete or lacking in explanation?

Looking at Depth:

- Identify unclear ideas or missing information
- Discuss areas yet to be explored or proven
- Note conclusions that need further evidence or support

- Is global warming fact or fiction?
- Is war the solution for peace?







Key Questions

- How is this structured?
- What are the stated and unstated causes elated to the description or explanation of what we are studying?

Looking at Depth:

- State the explicit or implicit factors that govern an area of study
- The structure
- The order
- The hierarchy
- > The elements that set the standards

- Describe the implicit and explicit rules of the water cycle. (Science)
- Define the consequences of the intended and unintended rules governing the behavior of the major characters. (Language Arts)

Key Questions • What dilemmas or controversies are involved in this area/topic/study/discipline

Looking at Depth:

- Identify value laden ideas
- Determine elements that reflect bias, prejudice, discrimination
- State pro and con arguments in terms of ethics

What elements can be identified that reflect bias, prejudice, and discrimination?

- How those the ethics of the character define who he is?
- Explore the rules (if any) that media follows to get a story?

Looking at Depth:

Identify a rule or general statement that summarizes information or draws a conclusion based on evidence drawn from a collection of facts or ideas

Key Questions

- What overarching statement best describes what is being studied?
- What general statement includes what is being studied?

Examples

 Define the meaning of the statement "change is inevitable" by studying changes in the environment, government, and portrayal of a character in a story.



Looking at Complexity:

- Describe relationships between past, present and future
- Describe relationships within a time period
- Explain how or why things changed or remained the same



Key Questions

- How are the ideas related between the past, present, future?
- How are these ideas related within or during a particular time period?
- How has time affected the information?
- How and why do things change or remain the same?

- Compare changes in life styles from the time of your parents' teenage years to the teenagers of today.
- Make a timeline of the history of the United States.

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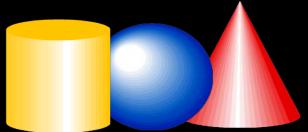
Key Questions

- What are the opposing viewpoints?
- How do different people and characters see this event or situation?

Looking at Complexity:

- Discuss multiple perspectives related to an area of study
- Explore opposing viewpoints (pros & cons)
- Reflect on advantages of diversity within a society

- Analyze the pros and cons of sweet drinks being sold at school.
- What are mathematicians' viewpoints on the metric system versus the standard system of measurement?



Key Questions

- How do experts in a discipline learn from experts in other disciplines?
- How do different people and characters see this event or situation?

Looking at Complexity:

- Relate/integrate the area of study to include the methodology of other disciplines.
- Describe a topic's place in more than one discipline or subject area.

- How is human behavior expressed through music and history?
- How has history affected art over time?
- How has technology affected literature?

Applications of these dimensions to the content of a lesson or unit of study modify the content to more appropriately challenge gifted and advanced students to develop a deeper, more complex, and extensive understanding of subject matter

(Educator to Educator 2003)