

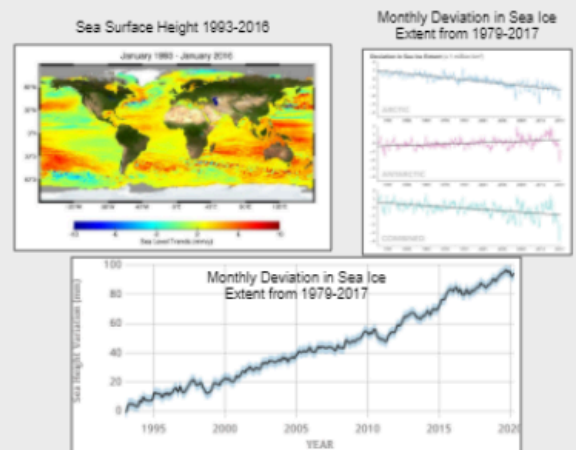
Instructional Strategies for the Earth Science Classroom

Make-a-Decision or Recommendation

Interact with data to decide or recommend actions stakeholders should take with respect to an Earth-human scenario.

(K. KASTENS & R. KRUMHANSL, 2017)

1. Students analyze a variety of data visualizations focused on central theme.
2. Teacher provides a scenario that students consider with respect to the data. Students review data and make a decision or recommendation. They also consider social, economic, political, and other human factors to justify their decision/recommendation.
3. Students communicate about their selection by citing evidence of the data to defend their reasoning.



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Are you tired of using the same classroom strategies, year-after-year? Explore the Google Slide [linked here](#) to see a variety of instructional practices that reflect several common practices used in many Earth Science classrooms as teachers strive to incorporate data literacy.

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|----------------------------|---------------|---------------------|----------------------------|--------------------|------------------------|------------------------|
| Prior Knowledge Activation | Data Analysis | Data Interpretation | Differentiated Instruction | Reading Strategies | Vocabulary Acquisition | Collaborative Learning |
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This list includes, but is not limited to, the following practices:

- Prior Knowledge Activation
 - Connection Circles
 - KWHLAQ Charts
 - Think, Pair, Share
 - Think, Puzzle, Explore
- Data Analysis
 - Data Literacy Cubes
 - GIST
 - Headlines
 - Make-A-Decision or Recommend
 - Nested Data Sets
 - Pooling Data to See the Big Picture
- Data Interpretation

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- Claim, Evidence, Reasoning, Rebuttal
 - Claim, Support, Question
 - Connect, Extend, Challenge
 - Data Puzzles
 - Fishbowl
 - Hypothesis Array
 - Identify / Interpret
 - I Used to Think.. / Now I Think...
 - Notice/See, Think, Wonder
 - Predict, Observe, Explain
 - RACE (Restate, Answer, Cite, Explain)
 - Zoom In
 - Differentiated Instruction
 - Data Literacy Cubes
 - Reading Strategies
 - RACE (Restate, Answer, Cite, Explain)
 - Text-to-Self, Text-to-Text, Text-to-World
 - Vocabulary Acquisition
 - Word Wall
 - Collaborative Learning
 - Fishbowl
 - Gallery Walks
 - Jigsaw Method
 - Think, Pair, Share

Should you wish to contribute to this list, please contact My NASA Data at:

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