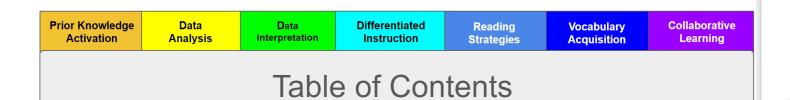
## My NASA Data

# Instructional Strategies for the Earth Science Classroom

Are you tired of using the same classroom strategies, year-after-year? Explore the Google Slide <u>linked here</u> 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.



This list includes, but is not limited to, the following practices:

- Prior Knowledge Activation
  - Connection Circles
  - KWHLAQ Charts
  - o 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
  - · 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
  - o Think, Pair, Share

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

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#### **NGSS Three Dimensional Learning**

#### **Science and Engineering Practices**

- Analyzing and Interpreting Data
- Engaging in Argument from Evidence

### Google Slide interactive Files

Instructional Strategies for the Earth Science Classroom