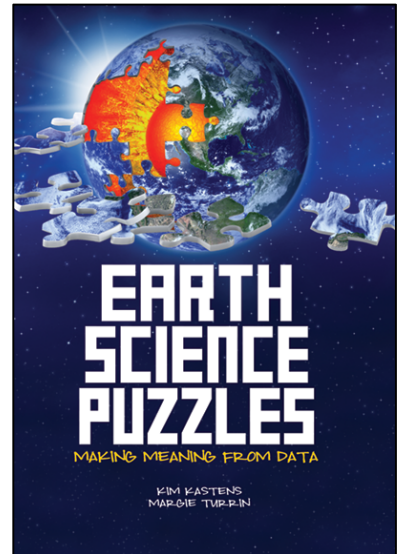


Earth Science Puzzles: Making Meaning from Data

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Focus Area:	Activities and Exercises, Classroom Practice and Direct Instruction, Professional Development
Key Learning Area:	Science



Summary

Teachers of Earth and environmental sciences in grades 8–12 will welcome this activity book centered on six “data puzzles” that foster critical-thinking skills and support science and math standards.

Earth Science Puzzles presents professionally gathered Earth science data on the topics of paleoclimate, weather forecasting, earthquakes, estuaries, watersheds, and hydrothermal vents. Students step into scientists’ shoes to use temporal, spatial, quantitative, and concept-based reasoning to draw inferences from the data.

For the teacher, each puzzle is supported by an extensive Pedagogical Content Knowledge Guide with background information, required student skills, common student misconceptions, an answer key to the questions in the student section, and a bank of resources for further exploration of the topics.

The time-efficient puzzles – each taking approximately one 50-minute period to complete – can be the beginning of exciting, data-rich classroom experiences.

Other Resources

- *Climate Change From Pole to Pole: Biology Investigations* (NST4704)
- *Once Upon a Life Science Book: 12 Interdisciplinary Activities to Create Confident Readers* (NST4674)
- *Citizen Science: 15 Lessons That Bring Biology to Life, 6–12* (NST4667)
- *Problem-Based Learning in the Life Science Classroom, K–12* (NST0492)