

EarthComm Goals and Expectations for Teachers

- Use motivational teaching methods, interactive technologies, and manipulatives to pique student interest and help all students to understand the practical effects of Earth science and essential concepts and principles that underlie energy within the Earth system, geochemical cycles, and the origin and evolution of the Earth system.
- Facilitate students' understanding of inquiry and ability to inquire scientifically by having students identify questions about local problems and issues, design and conduct investigations, use technology and mathematics, form scientific explanations using logic and evidence, analyze alternative explanations, and communicate and defend scientific arguments.
- Emphasize the connections and relationships between Earth science and other academic disciplines.
- Establish an expanded learning environment for students through fieldwork, technological access to data, laboratory and other classroom activities.
- Nurture communities of science learners by establishing student teams, orchestrating discourse about scientific ideas, building networks of local, regional and national information exchange, and using the services of Earth and space organizations.
- Raise students' awareness of environmental and resource issues and problems in their communities.

