

Soils and Science Education: A Perfect Match

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Abstract

Soil is more than the dirt under your feet; the organic and inorganic nature of soils makes soils the perfect topic for satisfying multiple state and national standards. No matter what domain of science, soil science is the cross-cutting science that unites science and engineering practices, cross-cutting concepts, and disciplinary core ideas. This session will present content and numerous activities that demonstrate that a deep understanding of soils unites all domains, and all NGSS strands. This makes the topic of soils the perfect integrated topic for not only uniting standards, but also in providing students with an understanding of the complexity of sustainability when the issues of soil conservation are addressed. In addition, the activities will have a STEM focus uniting soils and problem solving to support some of society's basic needs. Topics are adaptable to any grade level, and any science domain.