

Social Studies 8

Big Idea : Human and environmental factors shape changes in population and living standards

Content:

changes in population and living standards (e.g. forced and unforced migration and movement of people, diseases and health, urbanization and the effect of expanding communities, environmental impact (e.g., resource and land use))

Competencies:

- Use Social Studies inquiry processes and skills to — ask questions; gather, interpret, and analyze ideas; and communicate findings and decisions
- Assess the credibility of multiple sources and the adequacy of evidence used to justify conclusions (evidence)
- Determine which causes most influenced particular decisions, actions, or events, and assess their short-and long-term consequences (cause and consequence)

Sciences 9

Big Idea : The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.

Content:

- matter cycles within biotic and abiotic components of ecosystems:
 - e.g., water, nitrogen, carbon, phosphorous, etc.
 - human impacts on sources and sinks (e.g., climate change, deforestation, agriculture,etc.)
 - bioaccumulation and biomagnification
- sustainability of systems:
 - a system's approach to sustainability sees all matter and energy as interconnected and existing in dynamic equilibrium (e.g., carbon as a key factor in climate change, greenhouse effect, water cycle, etc.)
- First Peoples knowledge of interconnectedness
 - everything is connected, from local to global; First Peoples perspectives on interconnectedness and sustainability.

Competencies:

- Seek and analyze patterns, trends, and connections in data, including describing relationships between variables (dependent and independent) and identifying inconsistencies
- Demonstrate an awareness of assumptions, question information given, and identify bias in their own work and secondary sources
- Exercise a healthy, informed skepticism and use scientific knowledge and findings from their own investigations to evaluate claims in secondary sources