



# Science Curriculum Poster

# Grade Eight

August 2004

Earth Science  
Benchmarks (H.S.)

I. CONSTRUCTING NEW SCIENTIFIC KNOWLEDGE	II. REFLECTING ON SCIENTIFIC KNOWLEDGE	V. EARTH/SPACE SCIENCE "Geosphere"	V. EARTH/SPACE SCIENCE "Hydrosphere"	V. EARTH/SPACE SCIENCE "Atmosphere /Weather" "Solar System, Galaxy, Universe"
<p><u>Terms</u></p> <p>questions investigations problem solving graphs charts tables observation</p>	<p><u>Terms</u></p> <p>evidence scientific knowledge technology</p>	<p><u>Terms</u></p> <p>mantle tension compression plates continental crust oceanic crust hot spots mid-ocean ridges continental drift convection currents glacial evidence</p>	<p><u>Terms</u></p> <p>pollution urbanization acid rain herbicides pesticides filtering chlorination global warming</p>	<p><u>Terms</u></p> <p>latitude greenhouse effect ice ages volcanic dust stars, galaxies Milky Way spiral structure light year Big Bang Theory red shift Doppler effect</p>
<p><u>Concepts</u></p> <p>Empiricism  Scientific Investigations  Argumentation</p>	<p><u>Concepts</u></p> <p>Types of Evidence  Limitations of Science  Uses of Technology</p>	<p><u>Concepts</u></p> <p>Continental Movements  Plate Tectonics  Conservation/ Recycling</p>	<p><u>Concepts</u></p> <p>Regional Watersheds  Impact of Human Activity</p>	<p><u>Concepts</u></p> <p>Climate  Global Air Circulation  Impact of Human Activity  Formation of Stars and Planetary Systems  Age of the Universe</p>
<p><u>Skills</u></p> <p>Ask questions.  Design/conduct investigations.  Synthesize information.  Discuss, restate, defend a topic.</p>	<p><u>Skills</u></p> <p>Justify plans.  Describe limitations of science knowledge.  Apply themes.  Explain gains/risks of new technology.</p>	<p><u>Skills</u></p> <p>Explain Great Lakes' surface features.  Use plate tectonic theory to explain Earth's surface.  Explain how common objects are made from earth materials.</p>	<p><u>Skills</u></p> <p>Identify/describe regional watersheds.  Describe how human activities affect water quality.</p>	<p><u>Skills</u></p> <p>Describe/predict the climate of an area.  Explain the impact of human activity.  Compare our sun to other stars.  Describe earth's position/motion.  Explain how planetary systems form.</p>