

Big Ideas of Science of Science Education	Chemistry Concept Categories
All material in the Universe is made of very small particles.	Atomic structure and the periodic table Properties of matter, materials and bonding Chemical changes Synthesis and functionality Chemical symbols and calculations Chemical preparation and analysis Chemical and allied industries
Objects can affect other objects at a distance.	
Changing the movement of an object requires a net force to be acting on it.	
The total amount of energy in the Universe is always the same but energy can be transformed when things change or are made to happen.	Energy changes
The composition of the Earth and its atmosphere and the processes occurring within them shape the Earth's surface and its climate.	Earth science and environmental chemistry
The solar system is a very small part of one of millions of galaxies in the Universe.	
Organisms are organised on a cellular basis.	
Organisms require a supply of energy and materials for which they are often dependent on or in competition with other organisms.	
Genetic information is passed down from one generation of organisms to another.	
The diversity of organisms, living and extinct, is the result of evolution.	