

## Annually Assessed Science Benchmarks: Level 3, Grades 6-8

updated: 2005Jul22

SSS #	Benchmarks	Test Item Type
SC.A.1.3.1	The student identifies various ways in which <b>substances differ</b> .	MC, GR, SR
SC.B.1.3.1	The student identifies <b>forms of energy</b> and explains that they can be measured and compared.	MC, GR, SR, ER
SC.B.1.3.6	The student knows the <b>properties of waves</b> ; that each wave consists of a number of crests and troughs; and the effects of different media on waves.	MC, GR, SR
SC.B.2.3.1	The student knows that most events in the universe involve some form of energy transfer and that these changes almost always increase the total <b>disorder of the system</b> and its surroundings, reducing the amount of useful energy.	MC
SC.C.2.3.6	The student explains and shows the ways in which a <b>net force</b> can act on an object.	MC, GR, SR
SC.D.1.3.4	The student knows the ways in which <b>plants and animals reshape the landscape</b> .	MC
SC.E.1.3.1	The student understands the vast size of our <b>Solar System</b> and the relationship of the planets and their satellites.	MC, GR, SR
SC.F.1.3.1	The student understands that <b>living things are composed of major systems</b> that function in reproduction, growth, maintenance, and regulation.	MC, SR
SC.F.2.3.2	The student knows that the <b>variation in each species</b> is due to the exchange and interaction of genetic information as it is passed from parent to offspring.	MC, SR
SC.F.2.3.3	The student knows that generally organisms in a population live long enough to reproduce because they have <b>survival characteristics</b> .	MC
SC.G.1.3.4	The student knows that the interactions of organisms with each other and with the nonliving parts of their environments result in the <b>flow of energy and the cycling of matter</b> throughout the system.	MC, SR
SC.G.2.3.2	The student knows that all biotic and abiotic <b>factors are interrelated</b> and that if one factor is changed or removed, it impacts the availability of other resources within the system.	MC, GR, SR
SC.H.1.3.1	The student knows that <b>scientific knowledge is subject to modification</b> as new information challenges prevailing theories and as a new theory leads to looking at old observations in a new way.	MC, SR
SC.H.1.3.4	The student knows that <b>accurate record keeping, openness, and replication</b> are essential to maintaining an investigator's credibility with other scientists and society	MC, SR
SC.H.1.3.5	The student knows that a change in one or more <b>variables</b> may alter the outcome of an investigation.	MC, GR, SR, ER