

Delta Education Georgia Science Adoption 2007



**Full Option Science System™ (FOSS®)
Delta Science Modules™**

Correlations to Georgia Performance Standards MIDDLE SCHOOL



The following is a correlation of the Delta Full Option Science System (FOSS) and the Delta Science Module (DSM) program to the Georgia Performance Standards. A citation may not reflect all of the investigations or resources that might apply to each standard but are examples from the programs.

The correlation to the standards was completed with reference to the learning goals associated with each standard.

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800-258-1302
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RECOMMENDED MIDDLE SCHOOL SCOPE AND SEQUENCE

ALSO AVAILABLE: RECOMMENDED K-5 SCOPE AND SEQUENCE

EARTH SCIENCE GRADE 6

Earth History FOSS
Planetary Science FOSS
Weather & Water FOSS

**Also available: Solar Energy; Oceans; Earth, Moon and Sun; Earth Processes*

LIFE SCIENCE GRADE 7

Diversity of Life FOSS
Populations & Ecosystems FOSS
DNA: From Genes to Proteins DSM

PHYSICAL SCIENCE GRADE 8

Electronics FOSS
Force & Motion FOSS
Chemical Interactions FOSS

**Additional Suggested Titles*

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GRADE 6

Subject Area: Science

State-Funded Course: Grade 6

Textbook Title: Full Option Science System (FOSS) Delta Science Modules III (DSM)

Publisher: Delta Education

STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S6CS1	Habit of Mind: Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.	FOSS is an inquiry based program and provides the opportunity to incorporate this standard in its investigations. See for example: Solar Energy Investigation 2, Parts 1-2, pp. 8-24 Weather and Water Investigation 4, Part 1, pp. 121-130 Earth History Investigation 4, Part 2-3, pp. 132-146 Planetary Science Investigation 8, Parts 3-4, pp. 260-270
S6CS2	Students will use standard safety practices for all classroom laboratory and field investigations.	Safety is a priority with FOSS. Safety guidelines are in the Teacher Manual and in the investigations where appropriate. See for example: Solar Energy Investigation 4, Part 1, pp. 8-19 Weather and Water Investigation 5, Part 1, pp. 152-162
S6CS3	Students will use computations and estimation skills necessary for analyzing data and following scientific explanations.	Solar Energy Investigation 3, Parts 1-2, pp. 8-23 Weather and Water Investigation 5, Part 1, pp. 152-162 Planetary Science Investigation 8, Parts 3-4, pp. 260-270
S6CS4	Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities.	Solar Energy Investigation 2, Parts 1-2, pp. 8-24 Weather and Water Investigation 5, Part 1, pp. 152-162 Planetary Science Investigation 8, Parts 3-4, pp. 260-279
S6CS5	Students will use the idea of system, model, change, and scale in exploring scientific and technological matters	Solar Energy Investigation 4, Parts 1-3, pp. 8-28 Weather and Water Investigation 7, Parts 1-2, pp. 232-243 Planetary Science Investigation 9, Part 2, pp. 288-292 Earth History Investigation 4, Parts 5-6, pp. 150-162
S6CS6	Students will communicate scientific ideas and activities clearly.	Solar Energy Investigation 2, Parts 1-2, pp. 8-24 Weather and Water Investigation 4, Part 1, pp. 121-130 Planetary Science Investigation 8, Parts 3-4, pp. 260-270 Earth History Investigation 1 Part 1, pp.39-44
S6CS7	Students will question scientific claims and arguments effectively.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Planetary Science Investigation 5, Parts 2-3, pp. 158-167 Earth History Investigation 1 Part 2, pp. 45-49; Investigation 2 Part 4, pp. 71-75
S6CS8	The Nature of Science: Students will investigate the characteristics of scientific knowledge and how it is achieved.	FOSS is an inquiry based program and provides the opportunity to incorporate this standard in its investigations. See for example: Solar Energy Investigation 3, Parts 1-2, pp. 8-23 Planetary Science Investigation 5, Parts 2-3, pp. 158-167; Resources, pp. 67-68 Weather and Water Investigation 5, Part 1, pp. 152-162 Earth History Investigation 2 Parts 1-3, pp. 45-49; Investigation 2 Part 4, pp. 71-75

GRADE 6

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STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S6CS9	Students will investigate the features of the process of scientific inquiry.	FOSS is an inquiry based program and provides the opportunity to incorporate this standard in its investigations. See for example: Solar Energy Investigation 2, Parts 1-2, pp. 8-24 Planetary Science Investigation 5, Parts 2-3, pp. 158-167; Resources, pp. 67-68 Earth History Investigation 4, Parts 1-3, pp. 127-146 Weather and Water Investigation 5, Part 1, pp. 152-162
S6CS10	Students will enhance reading in all curriculum areas by:	FOSS provides Science Stories at grades K-6 and Reading Resources for the FOSS Middle School Program. The Teacher Manual provides guidance on using these resources effectively.
S6E1	Earth Science: Students will explore current scientific views of the universe and how those views evolved.	Solar Energy Science Stories, pp. 40-44 Planetary Science Investigation 3, Parts 1-2, pp. 89-98; Investigation 9, Parts 1-4, pp. 283-301; Investigation 10, Parts 2-3, pp. 318-324; Resources, pp. 84-89, 100-103; CD, Notebooks: Solar System; CD, Phases of the Moon; CD, Day/Night
S6E2	Students will understand the effects of the relative positions of the earth, moon and sun.	Planetary Science Investigation 9, Parts 1-4, pp. 283-301; CD, Phases of the Moon Weather and Water Investigation 3, Parts 1-3, pp. 93-110; Resources, pp. 17-19; CD, Cycles: Seasons DSM Earth, Moon and Sun Activity 9-11, pp. 81-109; Reader, pp. 11-19
S6E3	Students will recognize the significant role of water in earth processes.	Solar Energy Science Stories, pp. 22-24 Weather and Water Investigation 7, Parts 1-2, pp. 237-243; Resources, pp. 45-47; CD, Cycles: Water Cycle DSM Oceans Activity 1, 6-9, pp. 13-22, 65-112; Reader, pp. 2, 7-9
S6E4	Students will understand how the distribution of land and oceans affects climate and weather.	Solar Energy Science Stories, pp. 22-24 Weather and Water Investigation 8, Part 2, pp. 265-270; Investigation 9, Part 3, pp. 311-314; Resources, pp. 33, 53-55; CD, Climate Factors: Local Winds
S6E5	Students will investigate the scientific view of how the earth's surface is formed	Earth History Investigation 4, Parts 3-6, pp. 138-162; Investigation 7, Parts 1-2, pp. 234-243; Investigation 8, Parts 1-2, pp. 254-265; Resources 83-86, 89-90, 93-97, 100-103, CD, Earth Processes; CD, Geology Lab: Rock Database; CD, Formation of Metamorphic, Sedimentary and Igneous Rocks; CD, Time Room DSM Earth Processes Activity 2-14, pp. 23-129; Reader, pp. 2-20
S6E6	Students will describe various sources of energy with their uses and conservation.	Solar Energy Investigation 2 Parts 1-2, pp. 8-24; Investigation 3 Parts 1-2, pp. 8-23; Investigation 4 Parts 1-2, pp. 8-23; Science Stories, pp. 22-24; FOSS Web, Activity: Resource ID

GRADE 7

Subject Area: Science

State-Funded Course: Grade 1

Textbook Title: Full Option Science System (FOSS) Delta Science Modules III (DSM)

Publisher: Delta Education

STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S7CS1	Habit of Mind: Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.	FOSS is an inquiry based program and provides the opportunity to incorporate this standard in its investigations. See for example: Diversity of Life Investigation 8, Part 2, pp. 244-252; Investigation 9, Part 2, pp. 278-285 Populations and Ecosystems Investigation 5, Parts 1-2, pp. 142-155; Investigation 6, Parts 2-3, pp. 187-197
S7CS2	Students will use standard safety practices for all classroom laboratory and field investigations.	Populations and Ecosystems Investigation 5, Part 1, pp. 142-150 Diversity of Life Investigation 2, Part 1, pp. 72-78; Investigation 5, Part 2, pp. 157-164; Investigation 10, Part 1, pp. 303-309 Safety is a priority with FOSS. Safety guidelines are in the Teacher Manual and in the investigations where appropriate.
S7CS3	Students will use computations and estimation skills necessary for analyzing data and following scientific explanations	Populations and Ecosystems Investigation 5, Part 1, pp. 142-150 Diversity of Life Investigation 10, Part 2, pp. 310-316
S7CS4	Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities.	Diversity of Life Investigation 2, Parts 1-3, pp. 71-93; Investigation 3, Parts 1-3, pp. 102-122 Populations and Ecosystems Investigation 5, Part 1, pp. 142-150
S7CS5	Students will use the idea of system, model, change, and scale in exploring scientific and technological matters.	Diversity of Life Investigation 2, Part 1, pp. 72-78; Investigation 4, Part 2, pp. 137-141; Investigation 7, Part 1, pp. 218-223 Populations and Ecosystems Investigation 5, Part 4, pp. 161-169; Investigation 7, pp. 210-215
S7CS6	Students will communicate scientific ideas and activities clearly.	Diversity of Life Investigation 8, Part 2, pp. 244-252; Investigation 9, Part 2, pp. 278-285; Investigation 10, Part 2, pp. 310-316 Populations and Ecosystems Investigation 3, Part 3, pp. 103-107; Investigation 5, Part 1, pp. 142-150
S7CS7	Students will question scientific claims and arguments effectively.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Diversity of Life Investigation 6, Part 1, pp. 186-192; Investigation 9, Part 2, pp. 278-275 Populations and Ecosystems Investigation 6, Part 2, pp. 187-190

GRADE 7

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STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S7CS8	The Nature of Science: Students will investigate the characteristics of scientific knowledge and how that knowledge is achieved.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Diversity of Life Investigation 6, Part 1, pp. 186-192; Investigation 8, Part 2, pp. 244-252 Populations and Ecosystems Investigation 5, Part 1, pp. 142-150; Resources, pp. 46-57
S7CS9	Students will investigate the features of the process of scientific inquiry.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Diversity of Life Investigation 2, Parts 1-3, pp. 72-91; Investigation 8, Part 2, pp. 244-252; Investigation 10, Parts 1-2, pp. 302-316 Populations and Ecosystems Investigation 5, Parts 1-2, pp. 142-155; Investigation 9, Part 1, pp. 262-266
S7CS10	Students will enhance reading in all curriculum areas by:	FOSS provides Reading Resources for the FOSS Middle School Program. The Teacher Manual provides guidance on using these resources effectively.
S7L1	Life Science: Students will investigate the diversity of living organisms and how they can be compared scientifically.	Diversity of Life Investigation 8, Part 3, pp. 253-259; Investigation 9, Part 1, pp. 273-277; Investigation 10, Part 1, pp. 302-309; Resources pp. 16-17, 65-68; CD, Database
S7L2	Students will describe the structure and function of cells, tissues, organs, and organ systems.	Diversity of Life Investigation 4, Parts 1-2, pp. 133-141; Investigation 5, Parts 1-3, pp. 151-170; Resources, pp. 24-30; CD, Cells and the Ribbon of Life Populations and Ecosystems Investigation 5, Part 3, pp. 156-160 DSM DNA: From Genes to Proteins Activities 3-7, 10, 12-13, pp. 19-52, 69-74, 81-94; Reader pp. 4-7, 12-14, 15-20, 22
S7L3	Students will recognize how biological traits are passed on to successive generations	Populations and Ecosystems Investigation 9, Parts 1-4, pp. 262-291; Resources, pp. 46-55, 58-59 Diversity of Life Investigation 7, Part 1, pp. 218-223; Investigation 10, Part 2, pp. 310-316; Resources, pp. 26, 40-44, 53-54, 61-62
S7L4	Students will examine the dependence of organisms on one another and their environments.	Diversity of Life Resources, pp. 48-49 Populations and Ecosystems Investigation 3, Part 3, pp. 103-107; Investigation 4, Part 1, pp. 122-129; Investigation 5, Parts 2-4, pp. 151-169; Investigation 6, Parts 1-3, pp. 179-197; Investigation 7, pp. 210-215; Resources, pp. 17-21, 22-29, 30-41; CD, Mono Lake Food Web
S7L5	Students will examine the evolution of living organisms through inherited characteristics that promote survival of organisms and the survival of successive generations of their offspring.	Populations and Ecosystems Investigation 10, Parts 1-3, pp. 302-317; Resources, pp. 58-63; Video: Voyage to the Galapagos

GRADE 8

Subject Area: Science

State-Funded Course: Grade 8

Textbook Title: Full Option Science System (FOSS) Delta Science Modules III (DSM)

Publisher: Delta Education

STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S8CS1	Habit of Mind: Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Force and Motion Investigation 2, Part 3, pp. 89-99 Chemical Interactions Investigation 1, Parts 1-2, pp. 41-58; Investigation 5, Parts 1, 3, pp. 153-158, 165-171 Electronics Investigation 6, Part 3, pp. 195-200
S8CS2	Students will use standard safety practices for all classroom laboratory and field investigations.	Force and Motion Investigation 7, Part 1, pp. 256-261 Chemical Interactions Investigation 10, Part 1, pp. 323-391 Electronics Investigation 3, Part 1, pp. 119-123 Safety is a priority with FOSS. Safety guidelines are in the Teacher Manual and in the investigations where appropriate.
S8CS3	Students will use computations and estimation skills necessary for analyzing data and following scientific explanations.	Force and Motion Investigation 2, Part 3, pp. 89-99; Investigation 7, Part 1, pp. 256-261 Electronics Investigation 3, Part 2, pp. 124-127 Chemical Interactions Investigation 5, Part 3, pp. 165-171; Investigation 6, pp. 178-187
S8CS4	Students will use tools and instruments for observing, measuring, and manipulating equipment and materials in scientific activities utilizing safe laboratory procedures.	Force and Motion Investigation 2, Part 3, pp. 89-99; Investigation 7, Part 1, pp. 256-261 Electronics Investigation 3, Parts 1-3, pp. 119-132 Chemical Interactions Investigation 5, Part 3, pp. 165-171; Investigation 6, pp. 178-187
S8CS5	Students will use the idea of system, model, change, and scale in exploring scientific and technological matters.	Force and Motion Investigation 1, Part 1, pp. 47-56; Investigation 8, Parts 1-2, pp. 284-301 Electronics Investigation 1, Parts 1-3, pp. 55-70; Investigation 5, Parts 1-2, pp. 161-170 Chemical Interactions Investigation 5, Part 1, pp. 153-158
S8CS6	Students will communicate scientific ideas and activities clearly.	Force and Motion Investigation 2, Part 3, pp. 89-99; Investigation 4, Parts 1-2, pp. 138-151 Electronics Investigation 6, Part 3, pp. 195-200 Chemical Interactions Investigation 1, Part 2, pp. 165-171
S8CS7	Students will question scientific claims and arguments effectively.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Chemical Interactions Investigation 1, Part 2, pp. 165-171 Force and Motion Investigation 2, Part 3, pp. 89-99; Investigation 7, Part 1, pp. 256-261

GRADE 8

Continued

STANDARD (Cite Number)	STANDARD (Cite specific standard)	WHERE TAUGHT (If print component, cite page number; if non-print, cite appropriate location)
S8CS8	The Nature of Science: Students will be familiar with the characteristics of scientific knowledge and how it is achieved.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Chemical Interactions Investigation 1, Part 2, pp. 165-171; Resources, pp. 80-83 Electronics Investigation 3, Parts 1-3, pp. 119-132 Force and Motion Investigation 2, Part 3, pp. 89-99
S8CS9	Students will understand the features of the process of scientific inquiry.	FOSS is an inquiry based program and provides the opportunity to address this standard through its investigations. See for example: Chemical Interactions Investigation 10, Part 1, pp. 323-329; Investigation 5, Part 1, pp. 153-158 Electronics Investigation 3, Parts 1-4, pp. 119-135 Force and Motion Investigation 2, Part 3, pp. 89-99; Investigation 7, Parts 1-2, pp. 256-266
S8CS10	Students will enhance reading in all curriculum are by:	FOSS provides Reading Resources for the FOSS Middle School Program. The Teacher Manual provides guidance on using these resources effectively.
S8P1	Physical Science: Students will examine the scientific view of the nature of matter.	Chemical Interactions Investigation 2, Parts 1-2, pp. 70-80; Investigation 4, Parts 1-3, pp. 122-141; Investigation 8, Parts 1-2, pp. 248-262; Investigation 9, Parts 1-4, pp. 280-312; Investigation 10, Parts 1-2, pp. 325-336; Resources, pp. 3-15, 16-27, 41-48, 63-68, 73-77; Video: Atoms and Molecules; CD, Periodic Table; CD, Two Substance Reaction
S8P2	Students will be familiar with the forms and transformations of energy.	Chemical Interactions Investigation 4, Parts 1-2, pp. 121-139; Investigation 5, Parts 1-3, pp. 153-171; Investigation 7, Parts 1-5, pp. 204-234; Resources, pp. 32-36 Force and Motion Investigation 2, Part 3, pp. 89-99 Electronics Resources, pp. 12-13
S8P3	Students will investigate relationships between force, mass, and the motion of objects.	Force and Motion Investigation 2, part 3, pp. 89-99; Investigation 5, Parts 1-4, pp. 169-201; Investigation 6, Parts 1-4, pp. 218-245; Investigation 7, Parts 1-3, pp. 256-272; Investigation 8, Part 1, pp. 264-293; Resources, pp. 32-39, 67-74
S8P4	Students will explore the wave nature of sound and electromagnetic radiation.	DSM Color and Light (Recommended for Grade 6) Activity 1, pp. 13-18; Reader pp. 1-2, 8-9
S8P5	Students will recognize characteristics of gravity, electricity, and magnetism as major kinds of forces acting in nature.	Force and Motion Investigation 7, Parts 1-3, pp. 256-272; Resources, pp. 62-66 Electronics Investigation 1, Part 3, pp. 66-70; CD, Workbench