

SCIENCE SAURUS © 2005

**Grades 4-8**

correlated to

**SAT 10**



**YOUR ALABAMA GREAT SOURCE REPRESENTATIVE**

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**Grades 4-5**  
**correlated to**  
**SAT-10 Primary 2**

**E a r t h   S c i e n c e**

<b>Primary 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Understand the results of change on Earth materials	<b>Student Handbook:</b> 160, 164-165, 168-169, 170-177, 178-183
Understand the locations of objects in the sky	<b>Student Handbook:</b> 226, 228-233, 234-237, 368
Identify materials that can be broken down into soil	<b>Student Handbook:</b> 145, 168-169, 329
Understand information about past life	<b>Student Handbook:</b> 184-186

**L i f e   S c i e n c e**

<b>Primary 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Understand that organisms have structures that help them survive	<b>Student Handbook:</b> 79, 80, 81, 91, 98-109, 110-125, 132, 137, 139-155
Identify habits required to maintain health	<b>Student Handbook:</b> 30, 334-343
Predict animal behavior based on an understanding of structure and function	<b>Student Handbook:</b> 92, 93-95, 141, 146-155
Understand the life cycles of organisms	<b>Student Handbook:</b> 82-87, 142, 143, 151, 152, 153, 154, 155
Understand the basic needs of organisms	<b>Student Handbook:</b> 76, 78, 81, 97, 127, 130-131, 132, 137, 190, 330
Classify organisms based on similarities	<b>Student Handbook:</b> 139-155

## Physical Science

Primary 2 Objectives	ScienceSaurus, Grades 4-5
Predict changes due to pushing or pulling	<b>Student Handbook:</b> 268, 269, 272, 278, 279, 280, 283
Recognize examples of the behavior of light	<b>Student Handbook:</b> 308, 309-314
Identify resources that are used to make everyday objects	<b>Student Handbook:</b> 331, 332-333
Understand motion by noting changes in the position of objects	<b>Student Handbook:</b> 269, 275-276, 277-279
Recognize the effects of light on objects	<b>Student Handbook:</b> 310, 312, 313, 314
Recognize different states of matter	<b>Student Handbook:</b> 261-265

## Science Process Skills

Primary 2 Objectives	ScienceSaurus, Grades 4-5
Recognize fair ways to test hypotheses	<b>Student Handbook:</b> 4, 6, 8, 17, 20, 21, 26
Use observation skills to classify objects	<b>Student Handbook:</b> 5, 11
Use basic measurement instruments	<b>Student Handbook:</b> 5, 7, 8, 9, 10, 11, 15, 31, 38-50, 202, 203, 204, 205



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**Grades 4-5**  
 correlated to  
**SAT-10 Primary 3**

**E a r t h   S c i e n c e**

Primary 3 Objectives	ScienceSaurus, Grades 4-5
Identify changes in the sky	<b>Student Handbook:</b> 218-219, 220-221, 222-225, 236-237
Identify sources of energy for Earth	<b>Student Handbook:</b> 77-81, 200, 321-328
Determine a likely cause of apparent motion of objects in the sky	<b>Student Handbook:</b> 200-201, 226, 227
Use a model to predict a motion of an object in the sky	<b>Student Handbook:</b> 200, 220, 222, 228, 233,
Identify characteristics of objects in the sky	<b>Student Handbook:</b> 226-225
Understand basic weather conditions	<b>Student Handbook:</b> 198-217
Identify causes of changes in the sky	<b>Student Handbook:</b> 206-207, 212-215, 218-219, 220-221, 222-225, 236-237
Identify materials that can be broken down into soil	<b>Student Handbook:</b> 145, 168-169, 329, 348
Understand the cause of heat on Earth's surface	<b>Student Handbook:</b> 159, 178-179, 200-201, 216-217
Recognize consequences of changes in people's habits	<b>Student Handbook:</b> 334-343, 350-351
Identify sources of soil	<b>Student Handbook:</b> 131, 168-169, 329, 348

## Life Science

Primary 3 Objectives	ScienceSaurus, Grades 4-5
Identify basic patterns of behavior in animals	<b>Student Handbook:</b> 92, 93-95, 141, 146-155
Identify basic needs of organisms	<b>Student Handbook:</b> 76, 78, 81, 97, 127, 130-131, 132, 137, 190, 330
Recognize the function of organisms in the environment	<b>Student Handbook:</b> 126-138
Identify stages in the life cycle of organisms	<b>Student Handbook:</b> 82-87, 142, 143, 151, 152, 153, 154, 155
Apply an understanding of adaptations in organisms	<b>Student Handbook:</b> 77, 79, 88, 91, 92, 127, 135, 141, 142, 143
Apply an understanding of the basic needs of animals	<b>Student Handbook:</b> 78, 127, 130-131, 190, 330
Predict a change based on an understanding of structures in an organism	<b>Student Handbook:</b> 83-87, 91, 92, 93-95, 96-97, 98-125
Identify characteristics of organisms that are beneficial for a given function	<b>Student Handbook:</b> 77, 88-89, 98-125
Apply an understanding of the causes of change in the environment	<b>Student Handbook:</b> 77, 91, 334-343, 350-351

## Nature of Science

Primary 3 Objectives	ScienceSaurus, Grades 4-5
Interpret a simple graph of data	<b>Student Handbook:</b> 64-73
Draw conclusions from a graph	<b>Student Handbook:</b> 16, 24
Predict a change based on an understanding of light	<b>Student Handbook:</b> 309-314
Evaluate experimental designs	<b>Student Handbook:</b> 7, 15

<b>Primary 3 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Use a basic measurement instrument	<b>Student Handbook:</b> 5, 7, 8, 9, 10, 11, 15, 31, 38-50, 202, 203, 204, 205

## P h y s i c a l   S c i e n c e

<b>Primary 3 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Apply an understanding of the behavior of light	<b>Student Handbook:</b> 308, 309-314
Predict location of moving objects by evaluating models	<b>Student Handbook:</b> 270, 272, 276, 278, 279
Use an understanding of properties of materials to group objects	<b>Student Handbook:</b> 244-247
Predict the effects of structure on the sound produced by an object	<b>Student Handbook:</b> 315-317
Apply an understanding of changes in states of matter	<b>Student Handbook:</b> 246-247, 260-267
Recognize the effects of changes in states of matter	<b>Student Handbook:</b> 246-247, 260-267
Predict changes in properties of matter due to changes in states of matter	<b>Student Handbook:</b> 246-247, 260-267
Apply an understanding of the properties of materials	<b>Student Handbook:</b> 244-247
Apply an understanding of the motion of objects	<b>Student Handbook:</b> 269, 275-276, 277-279
Predict a change caused by a change in temperature	<b>Student Handbook:</b> 261-165
Understand basic properties of materials	<b>Student Handbook:</b> 244-247



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**SAT-10 Intermediate 1**

**E a r t h   S c i e n c e**

Intermediate 1 Objectives	ScienceSaurus, Grades 4-5
Analyze models of soil characteristics	<b>Student Handbook:</b> 131, 168-169, 329
Identify states of matter found in the water cycle	<b>Student Handbook:</b> 158, 188-189
Use observations to infer weather conditions	<b>Student Handbook:</b> 200-207, 208-211
Use a model to apply an understanding of planet motions	<b>Student Handbook:</b> 228-233
Analyze a graph of atmospheric conditions	<b>Student Handbook:</b> 64, 187, 198, 199
Make a prediction based on observations of changes in the earth/moon system	<b>Student Handbook:</b> 218-225
Identify the results of a motion of Earth	<b>Student Handbook:</b> 218-221
Apply an understanding of the processes involved in the water cycle	<b>Student Handbook:</b> 158, 188-189
Make an inference from data of star characteristics	<b>Student Handbook:</b> 234-237
Identify sources of energy for Earth systems	<b>Student Handbook:</b> 77-81, 200, 321-328
Make an inference supported by given fossil evidence	<b>Student Handbook:</b> 177, 184-186

## Life Science

Intermediate 1 Objectives	ScienceSaurus, Grades 4-5
Predict changes in populations using a food web	<b>Student Handbook:</b> 133-138, 351
Recognize commonalities in the life cycles of organisms	<b>Student Handbook:</b> 82-87, 142, 143, 151, 152, 153, 154, 155
Identify organisms by given characteristics	<b>Student Handbook:</b> 139-155
Identify changes in organisms' life cycles	<b>Student Handbook:</b> 82-87, 142, 143, 151, 152, 153, 154, 155
Identify characteristics common to major groups of organisms	<b>Student Handbook:</b> 139-155
Identify parts of a natural environment	<b>Student Handbook:</b> 126-138
Identify the role of given organisms in an ecosystem	<b>Student Handbook:</b> 126-138
Apply an understanding of functions of structures in organisms	<b>Student Handbook:</b> 83-87, 88-89, 90-91, 98-125, 147-149, 151-155
Infer methods of seed dispersal based on the form of fruits	<b>Student Handbook:</b> 86-87
Recognize characteristics of organisms useful for a given habitat	<b>Student Handbook:</b> 89, 90-91, 127, 128, 147-149, 151-155
Recognize the relationship between the number of organisms and available resources	<b>Student Handbook:</b> 91, 127

## Nature of Science

Intermediate 1 Objectives	ScienceSaurus, Grades 4-5
Evaluate an experimental procedure	<b>Student Handbook:</b> 7, 15
Identify quantitative relationships given in graphs	<b>Student Handbook:</b> 16, 24, 64-73

<b>Intermediate 1 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Use basic scientific instruments	<b>Student Handbook:</b> 5, 7, 8, 9, 10, 11, 15, 31, 38-50, 202, 203, 204, 205
Interpret graphs of data	<b>Student Handbook:</b> 16, 24, 64-67, 70
Use graphic information to make an inference	<b>Student Handbook:</b> 16, 24, 64-67, 70
Identify the use of basic scientific instruments	<b>Student Handbook:</b> 5, 7, 8, 9, 10, 11, 15, 31, 38-50, 202, 203, 204, 205

## P h y s i c a l   S c i e n c e

<b>Intermediate 1 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Analyze models of light behavior	<b>Student Handbook:</b> 308, 309-314
Predict the effects of forces on an object	<b>Student Handbook:</b> 268-269, 270-274, 277-279, 280-283
Identify a source of heat in a changing system	<b>Student Handbook:</b> 285, 288-294
Identify causes of sound	<b>Student Handbook:</b> 315-317
Identify forces that cause motion	<b>Student Handbook:</b> 268-269, 270-274, 270-274, 277-279
Make an inference based on an understanding of changes in the properties of matter	<b>Student Handbook:</b> 260-267
Identify a result of friction	<b>Student Handbook:</b> 274, 278
Apply an understanding of the functions of electrical circuits	<b>Student Handbook:</b> 300-303
Identify basic characteristics of matter	<b>Student Handbook:</b> 242-259, 260-267
Predict changes in motion caused by magnetic forces	<b>Student Handbook:</b> 272-273, 304-305
Predict the results of heat transfer in objects	<b>Student Handbook:</b> 261-265, 288-294



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**SAT-10 Intermediate 2**

**E a r t h   S c i e n c e**

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Apply an understanding of a model of Earth's motion	<b>Student Handbook:</b> 200-201, 220
Apply an understanding of soil composition	<b>Student Handbook:</b> 131, 168-169, 329
Use a model to infer the effects of the sun on Earth	<b>Student Handbook:</b> 188-189, 200-201, 220-221, 287
Analyze data of weather conditions given in a graph	<b>Student Handbook:</b> 208-211
Apply an understanding of organisms on erosion	<b>Student Handbook:</b> 165, 172-173
Apply an understanding of the conditions required for precipitation	<b>Student Handbook:</b> 188-189, 205, 208, 210
Identify changes caused by motions of Earth	<b>Student Handbook:</b> 195, 200-201, 218-219, 220-221
Make a prediction based on given characteristics of Earth's crust	<b>Student Handbook:</b> 158, 159-169, 170-186
Apply an understanding of the cause of common landforms	<b>Student Handbook:</b> 170-183
Apply an effect of the force of gravity on Earth	<b>Student Handbook:</b> 97, 195, 226, 227, 270-272, 278, 279

## Life Science

Intermediate 2 Objectives	ScienceSaurus, Grades 4-5
Identify characteristics common to major groups of organisms	<b>Student Handbook:</b> 139-155
Identify the role of given organisms in an ecosystem	<b>Student Handbook:</b> 126-138
Interpret a simple food web	<b>Student Handbook:</b> 133-138, 351
Predict the effects on a population under given conditions	<b>Student Handbook:</b> 91, 127, 129
Identify the effects on a population from a given environmental change	<b>Student Handbook:</b> 91, 127, 129
Determine characteristics of an organism, given part of its life cycle	<b>Student Handbook:</b> 82-87, 142, 143, 151, 152, 153, 154, 155
Identify a basic function of a human system	<b>Student Handbook:</b> 104-105, 106, 108-109, 110-125
Identify habitats suitable for the adaptations of common animals	<b>Student Handbook:</b> 77, 79, 88, 91, 92, 127, 135, 141, 142, 143
Identify methods of disease transfer in humans	<b>Student Handbook:</b> 20, 26, 139, 335, 343
Infer methods of seed dispersal based on the form of a given fruit	<b>Student Handbook:</b> 86-87

## Nature of Science

Intermediate 2 Objectives	ScienceSaurus, Grades 4-5
Apply an understanding of the type of questions that can be answered by experimentation	<b>Student Handbook:</b> 2, 4, 5, 20, 359
Identify a procedure that should be followed to correct a possible experimental error	<b>Student Handbook:</b> 15, 31, 41
Interpret data of properties of matter	<b>Student Handbook:</b> 5, 244-247

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Analyze data of sounds	<b>Student Handbook:</b> 315-317
Identify quantitative relationships given in graphs	<b>Student Handbook:</b> 16, 24, 64-67, 7
Identify the use of basic scientific instruments	<b>Student Handbook:</b> , 7, 8, 9, 10, 11, 15, 31, 38-50, 202, 203, 204, 205
Use observation skills to make inferences about objects in the solar system	<b>Student Handbook:</b> 238-239

## P h y s i c a l   S c i e n c e

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Identify a basic unit of chemical elements	<b>Student Handbook:</b> 248-249, 250-253
Identify basic characteristics of materials involved in electrical currents	<b>Student Handbook:</b> 295-307
Make an inference based on an understanding of changes in properties of matter	<b>Student Handbook:</b> 246-247, 260-267
Use a model to determine motion	<b>Student Handbook:</b> 275-276, 278, 279
Apply an understanding of properties of matter	<b>Student Handbook:</b> 244-247, 260-267
Determine characteristics of water at different temperatures	<b>Student Handbook:</b> 261, 264, 288, 291
Draw a conclusion about motion based on given data	<b>Student Handbook:</b> 269, 275-276, 277-279
Predict the effects of forces on an object	<b>Student Handbook:</b> 268-269, 270-274, 277-279, 280-283
Apply an understanding of characteristics of different types of matter	<b>Student Handbook:</b> 242-259, 260-267
Identify a characteristic of matter required for a given use	<b>Student Handbook:</b> 254-255, 256-259

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 4-5</b>
Infer the conditions required for the production of given sounds	<b>Student Handbook:</b> 315-317



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**SAT-10 Intermediate 2**

**E a r t h   S c i e n c e**

Intermediate 2 Objectives	ScienceSaurus, Grades 6-8
Apply an understanding of a model of Earth's motion	<b>Student Handbook:</b> 018, 205, 233, 234
Apply an understanding of soil composition	<b>Student Handbook:</b> 019, 140, 191
Use a model to infer the effects of the sun on Earth	<b>Student Handbook:</b> 018, 134, 137, 216, 233, 234, 325
Analyze data of weather conditions given in a graph	<b>Student Handbook:</b> 219, 220, 225, 226
Apply an understanding of organisms on erosion	<b>Student Handbook:</b> 180, 192, 195
Apply an understanding of the conditions required for precipitation	<b>Student Handbook:</b> 216, 220, 222
Identify changes caused by motions of Earth	<b>Student Handbook:</b> 205, 233, 234
Make a prediction based on given characteristics of Earth's crust	<b>Student Handbook:</b> 175, 177, 179, 180, 183, 184, 185, 186, 187, 188-193
Apply an understanding of the cause of common landforms	<b>Student Handbook:</b> 184, 187, 188-193
Apply an effect of the force of gravity on Earth	<b>Student Handbook:</b> 111, 192, 276, 278

## Life Science

Intermediate 2 Objectives	ScienceSaurus, Grades 6-8
Identify characteristics common to major groups of organisms	<b>Student Handbook:</b> 158-162
Identify the role of given organisms in an ecosystem	<b>Student Handbook:</b> 129-149
Interpret a simple food web	<b>Student Handbook:</b> 132, 133-135
Predict the effects on a population under given conditions	<b>Student Handbook:</b> 131, 132, 140
Identify the effects on a population from a given environmental change	<b>Student Handbook:</b> 131, 132, 140, 340-344, 353
Determine characteristics of an organism, given part of its life cycle	<b>Student Handbook:</b> 106, 108
Identify a basic function of a human system	<b>Student Handbook:</b> 082, 083-102
Identify habitats suitable for the adaptations of common animals	<b>Student Handbook:</b> 109, 127, 128
Identify methods of disease transfer in humans	<b>Student Handbook:</b> 026, 346
Infer methods of seed dispersal based on the form of a given fruit	<b>Student Handbook:</b> 108, 111

## Nature of Science

Intermediate 2 Objectives	ScienceSaurus, Grades 6-8
Apply an understanding of the type of questions that can be answered by experimentation	<b>Student Handbook:</b> 003-006, 016, 017, 018, 414-416
Identify a procedure that should be followed to correct a possible experimental error	<b>Student Handbook:</b> 008, 009, 014, 054
Interpret data of properties of matter	<b>Student Handbook:</b> 251-252

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Analyze data of sounds	<b>Student Handbook:</b> 312-313
Identify quantitative relationships given in graphs	<b>Student Handbook:</b> 012, 015, 390-394, 399, 400
Identify the use of basic scientific instruments	<b>Student Handbook:</b> 009, 028-034, 046-052, 053-072
Use observation skills to make inferences about objects in the solar system	<b>Student Handbook:</b> 238-243, 244-248

## P h y s i c a l   S c i e n c e

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Identify a basic unit of chemical elements	<b>Student Handbook:</b> 259-264, 265
Identify basic characteristics of materials involved in electrical currents	<b>Student Handbook:</b> 277, 314-321
Make an inference based on an understanding of changes in properties of matter	<b>Student Handbook:</b> 251-252
Use a model to determine motion	<b>Student Handbook:</b> 018, 277, 278, 280-282, 283-286
Apply an understanding of properties of matter	<b>Student Handbook:</b> 251-252
Determine characteristics of water at different temperatures	<b>Student Handbook:</b> 216, 254, 273
Draw a conclusion about motion based on given data	<b>Student Handbook:</b> 274-298
Predict the effects of forces on an object	<b>Student Handbook:</b> 274-298
Apply an understanding of characteristics of different types of matter	<b>Student Handbook:</b> 250-273
Identify a characteristic of matter required for a given use	<b>Student Handbook:</b> 271-273

<b>Intermediate 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Infer the conditions required for the production of given sounds	<b>Student Handbook:</b> 312-313



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**SAT-10 Intermediate 3**

**E a r t h   S c i e n c e**

<b>Intermediate 3 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Identify a model of a solar event	<b>Student Handbook:</b> 018, 233, 234, 235, 236, 237, 242
Use a model to apply an understanding of the rock cycle	<b>Student Handbook:</b> 018, 180
Evaluate evidence for a conclusion about Earth's form	<b>Student Handbook:</b> 194-200
Apply an understanding of sequencing of rock layers	<b>Student Handbook:</b> 180, 195, 196
Use a model to infer the effects of Earth's motions	<b>Student Handbook:</b> 205, 233, 234
Use a model to apply an understanding about Earth's crust	<b>Student Handbook:</b> 177, 180, 183, 184, 185, 186, 187, 191, 196
Use information to infer weather conditions	<b>Student Handbook:</b> 218-226
Use information to infer the effects of gravity at different locations	<b>Student Handbook:</b> 111, 192, 276, 278
Infer the type of precipitation in a given situation	<b>Student Handbook:</b> 216, 220, 222
Identify the major source of an atmospheric gas	<b>Student Handbook:</b> 213-217

## Life Science

Intermediate 3 Objectives	ScienceSaurus, Grades 6-8
Identify examples of populations	<b>Student Handbook:</b> 130-132, 345
Identify the basic units of a food web	<b>Student Handbook:</b> 132, 133-135
Identify examples of inherited traits	<b>Student Handbook:</b> 121-123
Interpret graphic information about natural environments	<b>Student Handbook:</b> 129-149
Identify methods of disease transfer in humans	<b>Student Handbook:</b> 026, 346
Evaluate evidence for a conclusion about adaptations of organisms	<b>Student Handbook:</b> 109, 127, 128
Identify the function of types of organisms in ecosystems	<b>Student Handbook:</b> 129-149
Apply an understanding of the advantages required for natural selection	<b>Student Handbook:</b> 127
Identify the basic units of organisms	<b>Student Handbook:</b> 074-081, 158-162
Identify the structure of an organism required for a given function	<b>Student Handbook:</b> 075-082
Identify the levels of complexity in organisms	<b>Student Handbook:</b> 075-082, 158-162

## Nature of Science

Intermediate 3 Objectives	ScienceSaurus, Grades 6-8
Apply an understanding of the type of questions that can be answered by experimentation	<b>Student Handbook:</b> 003-006, 016, 017, 018, 414-416
Recognize statements of hypotheses	<b>Student Handbook:</b> 006, 015, 017, 018

<b>Intermediate 3 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Use observations skills to infer sequences of events	<b>Student Handbook:</b> 002, 009, 010, 017
Identify appropriate units of measure for length	<b>Student Handbook:</b> 058
Use a graph to draw a conclusion about growth patterns	<b>Student Handbook:</b> 013
Draw a conclusion based on data of animal responses	<b>Student Handbook:</b> 013, 110
Draw a conclusion based on data of planet characteristics	<b>Student Handbook:</b> 013, 240

## P h y s i c a l   S c i e n c e

<b>Intermediate 3 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Identify examples of kinetic energy	<b>Student Handbook:</b> 300, 301, 302
Apply an understanding of heat transfer	<b>Student Handbook:</b> 304
Interpret a model of a state of matter	<b>Student Handbook:</b> 253-254
Predict the effects of forces on an object	<b>Student Handbook:</b> 274-298
Compare differences in light and sound	<b>Student Handbook:</b> 305-307, 308-311, 312-313
Make an inference based on an understanding of changes in the properties of matter	<b>Student Handbook:</b> 251-252
Make a prediction based on an observation of properties of matter	<b>Student Handbook:</b> 251-252
Identify complete electrical circuits	<b>Student Handbook:</b> 318
Make an inference based on an understanding of waves	<b>Student Handbook:</b> 305-307, 308-311, 312-313

<b>Intermediate 3 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Identify changes in energy forms in a given system	<b>Student Handbook:</b> 105, 256, 300, 301, 308, 312, 315
Identify a characteristic of a substance in water	<b>Student Handbook:</b> 271, 272, 273



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**SAT-10 Advanced 1**

**E a r t h   S c i e n c e**

Advanced 1 Objectives	ScienceSaurus, Grades 6-8
Apply an understanding of the causes of a given landform	<b>Student Handbook:</b> 184, 187, 188-193
Use a model to predict the relative age of rock layers	<b>Student Handbook:</b> 195, 196
Interpret a model of a rock cycle	<b>Student Handbook:</b> 018, 180
Analyze a model of changes in Earth's surface	<b>Student Handbook:</b> 183, 184, 186, 187, 196
Use a model to identify the results of changes in Earth's surface	<b>Student Handbook:</b> 183, 184, 186, 187, 196
Interpret a model of a geochemical cycle	<b>Student Handbook:</b> 190
Use a model to identify the cause of differences in Earth's temperatures	<b>Student Handbook:</b> 227-230
Use models to apply an understanding of weather phenomena	<b>Student Handbook:</b> 218-226
Use information to predict soil characteristics	<b>Student Handbook:</b> 019, 140, 191
Recognize the results of the position of a planet on the seasons	<b>Student Handbook:</b> 234
Identify the causes of changes on Earth	<b>Student Handbook:</b> 181-187, 188-193, 218-226, 340-344, 345-353

# Life Science

Advanced 1 Objectives	ScienceSaurus, Grades 6-8
Analyze a model to determine parts of a cycle in the environment	<b>Student Handbook:</b> 106, 108, 138, 139, 180, 216
Analyze a model to predict the effects of a change in an ecosystem	<b>Student Handbook:</b> 109, 127, 128, 131
Interpret a model of changes in a cell	<b>Student Handbook:</b> 076-081
Use a model to identify a characteristic of a body system	<b>Student Handbook:</b> 082, 083-102
Use models and keys to scientifically identify organisms	<b>Student Handbook:</b> 150-164
Evaluate given adaptations for their functions in organisms	<b>Student Handbook:</b> 109, 127, 128
Identify causes of growth in organisms	<b>Student Handbook:</b> 097, 102, 106, 108
Identify possible changes caused by introduced species	<b>Student Handbook:</b> 127, 128, 131
Apply an understanding of the importance of structural adaptations	<b>Student Handbook:</b> 109, 127, 128
Identify an interrelationship between organisms in an ecosystem	<b>Student Handbook:</b> 129-149
Identify a relationship between abiotic and biotic parts of ecosystems	<b>Student Handbook:</b> 129-149

## Nature of Science

Advanced 1 Objectives	ScienceSaurus, Grades 6-8
Evaluate graphic representations of data	<b>Student Handbook:</b> 012, 015, 390-394, 399, 400
Interpret information about uses of chemical substances	<b>Student Handbook:</b> 271-272
Use observations to predict characteristics of objects	<b>Student Handbook:</b> 002, 009, 010, 017
Analyze a graph of data	<b>Student Handbook:</b> 012, 015, 390-394, 399, 400
Make a prediction based on given information-Constancy	<b>Student Handbook:</b> 002
Make a prediction based on given information-Form and Function	<b>Student Handbook:</b> 002
Identify the use of tools in science	<b>Student Handbook:</b> 009, 028-034, 046-052, 053-072

## Physical Science

Advanced 1 Objectives	ScienceSaurus, Grades 6-8
Use information to compare characteristics of substances	<b>Student Handbook:</b> 250-273
Apply an understanding of chemical formulas	<b>Student Handbook:</b> 266-270
Identify causes of changes of pitch in sounds	<b>Student Handbook:</b> 312-313
Identify sources of heat	<b>Student Handbook:</b> 028-034
Apply an understanding of the results of motion of an object	<b>Student Handbook:</b> 274-298
Apply an understanding of kinetic energy of motion	<b>Student Handbook:</b> 300, 301, 302
Identify a unit of measure associated with motion	<b>Student Handbook:</b> 280, 285, 287, 298

<b>Advanced 1 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Use information to predict the results of a behavior of light	<b>Student Handbook:</b> 308-311
Recognize chemical changes in substances	<b>Student Handbook:</b> 252, 254
Identify methods of separating substances in mixtures	<b>Student Handbook:</b> 271
Identify devices used to convert energy from one form to another	<b>Student Handbook:</b> 028-034



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**Grades 6-8**  
 correlated to  
**SAT-10 Advanced 2**

**E a r t h   S c i e n c e**

<b>Advanced 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Evaluate models of crustal plate movements	<b>Student Handbook:</b> 182, 183, 184, 186, 187
Identify parts of weather systems	<b>Student Handbook:</b> 218-226
Interpret models of Earth motions	<b>Student Handbook:</b> 018, 205, 233, 234
Interpret models showing the relationship between sun and Earth	<b>Student Handbook:</b> 233, 234, 235, 236, 238
Analyze graphic information about weather patterns	<b>Student Handbook:</b> 219, 220, 222, 225, 226
Draw a conclusion using given data about soil formation	<b>Student Handbook:</b> 019, 140, 191
Identify fossil evidence	<b>Student Handbook:</b> 126, 128, 198
Make a prediction about changes shown in celestial objects	<b>Student Handbook:</b> 231-248
Compare the characteristics of Earth to other celestial objects	<b>Student Handbook:</b> 240
Identify the relationship between the angle of sunlight and temperature	<b>Student Handbook:</b> 233, 234
Predict the effects of Earth changes on rock structure	<b>Student Handbook:</b> 180, 187, 188-193

## Life Science

Advanced 2 Objectives	ScienceSaurus, Grades 6-8
Make an inference by comparing characteristics of organisms	<b>Student Handbook:</b> 074-102103-128, 129-149, 150-164
Translate information from food webs into different models	<b>Student Handbook:</b> 132, 133-135
Use models and keys to scientifically identify organisms	<b>Student Handbook:</b> 158-162
Use models to identify cell types	<b>Student Handbook:</b> 076-081
Compare changes in plant parts using given information	<b>Student Handbook:</b> 078, 107, 108, 111, 162
Determine the relevance of changes in mammal body functions	<b>Student Handbook:</b> 106
Sequence events in cellular events	<b>Student Handbook:</b> 079, 080, 081
Evaluate data taken from different biomes	<b>Student Handbook:</b> 141-149
Evaluate given adaptations for their functions in organisms	<b>Student Handbook:</b> 109, 127, 128
Identify commonalities among groups of organisms	<b>Student Handbook:</b> 158-162
Make a prediction about a population in a given ecosystem	<b>Student Handbook:</b> 130-132

## Nature of Science

Advanced 2 Objectives	ScienceSaurus, Grades 6-8
Analyze patterns of data to identify a problem	<b>Student Handbook:</b> 009, 014
Evaluate experimental setups	<b>Student Handbook:</b> 008, 018

<b>Advanced 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Identify constants in an experiment	<b>Student Handbook:</b> 008, 018
Draw a conclusion using given data	<b>Student Handbook:</b> 011, 013, 015
Recognize logical hypotheses	<b>Student Handbook:</b> 006, 015, 017, 018
Identify basic properties of matter mathematically	<b>Student Handbook:</b> 251, 253, 254
Make a prediction about motion of gear systems	<b>Student Handbook:</b> 002

## P h y s i c a l   S c i e n c e

<b>Advanced 2 Objectives</b>	<b>ScienceSaurus, Grades 6-8</b>
Classify substances in groups by common characteristics	<b>Student Handbook:</b> 260, 264, 265
Identify basic parts of chemical reactions	<b>Student Handbook:</b> 269
Recognize common compounds	<b>Student Handbook:</b> 259, 262, 264
Analyze patterns of change in substances	<b>Student Handbook:</b> 252, 254
Apply an understanding of heat flow	<b>Student Handbook:</b> 301-304
Compare characteristics of light and sound	<b>Student Handbook:</b> 308-311, 312-313
Identify basic functions of substances	<b>Student Handbook:</b> 250-273
Identify the basic function of a given electrical circuit	<b>Student Handbook:</b> 318
Identify the cause in the change of the behavior of light	<b>Student Handbook:</b> 308-311
Make a prediction about motion of simple machines	<b>Student Handbook:</b> 288-294



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