

GLENCOE CORRELATION
SCIENCE INTERACTIONS Courses 1, 2, 3, and 4
GLENCOE SCIENCE: AN INTRODUCTION TO THE LIFE, EARTH, AND PHYSICAL SCIENCES
NEW JERSEY
Science Standards

STANDARDS	PAGE REFERENCES				
	SCIENCE INTERACTIONS Course 1	SCIENCE INTERACTIONS Course 2	SCIENCE INTERACTIONS Course 3	SCIENCE INTERACTIONS Course 4	GLENCOE SCIENCE: AN INTRODUCTION TO THE LIFE, EARTH, AND PHYSICAL SCIENCES
5.1 All students will learn to identify systems of interacting components and understand how their interactions combine to produce the overall behavior of the system.	SE: 92-93, 248-265, 284, 312-336 <i>Explore</i> 289, 313	SE: 84-90, 212-231, 240-243, 256-257, 484-489, 604-606 <i>Design Your Own Investigation</i> 216-217 <i>Find Out</i> 86, 231, 242 <i>Investigate!</i> 96-97, 228-229 <i>Science & Society</i> 476-477	SE: 242-257, 351-360, 372-380, 393, 406-428, 598-619	SE: 114-138, 142-166, 170-196, 262-288	SE: 31-55, 61-83, 117-142, 147-170
5.2 All students will develop problem-solving, decision-making and inquiry skills, reflected by formulating usable questions and hypotheses, planning experiments, conducting systematic observations, interpreting and analyzing data, drawing conclusions, and communicating results.	SE: 2-9, 12-15 <i>Design Your Own Investigation</i> 40-41, 168-169, 328-329 <i>InterNET Connection</i> 242, 338 <i>Investigate</i> 10-11, 300-301	SE: 2-9, 12-15 <i>Design Your Own Investigation</i> 184-185, 336-337, 498-499, 540-541 <i>Find Out</i> 88, 231, 377 <i>Investigate!</i> 194-195, 252-253, 540-541	SE: 2-15 <i>Explore</i> 11 <i>Investigate!</i> 12-13, 212-213, 454-455, 480-481, 546-547, 610-611	SE: 2-14 <i>All Design Your Own Investigations</i> <i>All MiniLABS</i>	SE: 4-26 <i>Activity</i> 40-41, 48-49, 71, 78-79, 94-95, 126-127, 139, 160-161, 220-221, 271, 280-281, 302-303, 356-357, 381, 418-419, 450-451, 501 <i>MiniLAB</i> 69, 75, 92, 154, 158, 215, 228, 273, 297, 329, 352, 382, 477 <i>Problem Solving</i> 216, 305, 325

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5.3 All students will develop an understanding of how people of various cultures have contributed to the advancement of science and technology, and how major discoveries and events have advanced science and technology.	SE: <i>How Do We Know?</i> 57, 174, 227, 251 <i>Science & Society</i> 625 <i>Science On The Run</i> 12 <i>Technology Connection</i> 47	SE: 9, 446 <i>A Closer Look</i> 88-89 <i>History Connection</i> 107 <i>How Do We Know?</i> 201, 517 <i>Technology Connection</i> 77, 416, 506, 543	SE: 6, 75, 112-115, 126, 145, 444-447, 579 <i>Chemistry Connection</i> 550-551 <i>How Do We Know?</i> 387, 589 <i>Science & Society</i> 462-463 <i>Technology Connection</i> 43, 329, 650	SE: 598-626, 630-658, 662-690 <i>History Connection</i> 232 <i>People in Science</i> 62-63, 516-517	SE: 212-216 <i>Science & Society</i> 100-101 <i>Using Technology</i> 64
5.4 All students will develop an understanding of technology as an application of scientific principles.	SE: <i>Chemistry Connection</i> 332-333 <i>How It Works</i> 145, 339 <i>InterNET Connection</i> 47 <i>Science & Society</i> 269-271, 436-437 <i>Technology Connection</i> 80	SE: 27, 34, 44, 123-125, 141, 150-157, 435 <i>A Closer Look</i> 34-35, 160-161 <i>Earth Science Connection</i> 138-139 <i>Find Out</i> 44, 153	SE: 650 <i>How It Works</i> 394, 589 <i>Science & Society</i> 74-75, 364-365, 429-430, 462-463, 557-558 <i>Technology Connection</i> 43, 329, 431, 592	SE: 34, 282-283, 292-318, 328-352, 396-408, 412-438, 478-504, 540-562, 566-588, 632-658, 662-690, 700-728, 764-790 <i>Applying Technology</i> 196 <i>Science and Society</i> 66-67, 242-243	SE: 175-202 <i>Problem Solving</i> 105, 131, 349 <i>Science & Society</i> 230-231, 284-285, 366-367, 394-395 <i>Using Technology</i> 272, 364, 413, 454
5.5 All students will integrate mathematics as a tool for problem-solving in science, and as a means of expressing and/or modeling scientific theories.	SE: <i>A Closer Look</i> 395 <i>Design Your Own Investigation</i> 169, 283 <i>Earth Science Connection</i> 142-143 <i>Investigate!</i> 30-31, 132-133, 335 <i>Life Science Connection</i> 385 <i>Science & Society</i> 146-147	SE: 105, 125 <i>Chemistry Connection</i> 600-601 <i>Design Your Own Investigation</i> 126-127, 170-171, 398-399 <i>Explore</i> 36 <i>Investigate!</i> 24-25, 64-65, 458-459	SE: 41, 84, 152, 193, 195, 549-551 <i>Design Your Own Investigation</i> 88-89, 224-225, 610-611 <i>Find Out</i> 85, 161 <i>Investigate!</i> 38-39, 454-455, 600-601	SE: <i>Applying Math</i> 703, 709, 781	SE: 293 <i>MiniLAB</i> 158 <i>Problem Solving</i> 76, 441 <i>Using Math</i> 99, 122, 142, 184, 240, 258, 268, 274, 337, 383, 445, 461

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5.6 All students will gain an understanding of the structure, characteristics, and basic needs of organisms.	SE: 218-224, 285-292, 294-295, 312-327, 331-336 <i>Design Your Own Investigation</i> 222-223 <i>Explore</i> 279, 320 <i>Find Out</i> 293, 325	SE: 84-86, 212-215, 244-247, 257, 484-489 <i>Explore</i> 485, 515 <i>Investigate!</i> 96-97, 288-289	SE: 351-360, 372-377, 406-428 <i>Design Your Own Investigation</i> 420-421 <i>Explore</i> 353, 424 <i>Investigate!</i> 414-415	SE: 114-138, 147-166, 170-196, 206-232, 236-258	SE: 31-55, 61-83, 89-112, 147-170
5.7 All students will investigate the diversity of life.	SE: 228-229, 233, 248-251, 278-279, 285-295, 346-351 <i>Explore</i> 345 <i>Find Out</i> 349	SE: 100-101, 484 <i>A Closer Look</i> 486-487 <i>Explore</i> 532 <i>Life Science Connection</i> 372-373	SE: 411-419, 422, 423-428, 438-451 <i>Explore</i> 405, 437 <i>Find Out</i> 383 <i>Investigate!</i> 378-379, 414-415, 454-455	SE: 114-138, 142-166, 170-191	SE: 31-55, 89-112, 117-142, 147-170
5.8 All students will gain an understanding of the structure and behavior of matter.	SE: 122-123, 127-131, 135-144 <i>A Closer Look</i> 120-121 <i>Design Your Own Investigation</i> 124-125, 168-169 <i>Earth Science Connection</i> 142-143 <i>Investigate!</i> 132-133, 158-159	SE: 270-271, 439-446, 552-553 <i>Explore</i> 271 <i>Find Out</i> 552	SE: 131-134, 155-167, 176-184, 188-191, 306-310, 314-317 <i>Design Your Own Investigation</i> 182-183 <i>Find Out</i> 155 <i>Investigate!</i> 318-319 <i>Science & Society</i> 168-169	SE: 206-232, 236-258, 262-288, 292-318, 356-380, 448-474, 478-504, 540-562, 630-658	SE: 211-231, 237-258, 405-432
5.9 All students will gain an understanding of natural laws as they apply to motion, forces, and energy transformations.	SE: 382-390, 396-397, 400, 403-404, 414, 415, 420-421, 425, 429 <i>Explore</i> 393 <i>Find Out</i> 423 <i>History Connection</i> 438	SE: 22-38, 118-141, 563-567 <i>Design Your Own Investigation</i> 32-33, 126-127, 568-569 <i>Explore</i> 21 <i>Find Out</i> 393	SE: 210-211 <i>Explore</i> 209	SE: 52-61, 64-75, 236-258, 508-536, 540-562, 566-588, 700-728, 732-760	SE: 263-286, 291-314, 319-340, 345-367, 437-462

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5.10 All students will gain an understanding of the structure, dynamics, and geophysical systems of the earth.	SE: 444-451, 460-461, 485-487, 493-496, 602-609 <i>A Closer Look</i> 456-457 <i>Chemistry Connection</i> 358-359, 446-447 <i>Find Out</i> 444, 605 <i>Investigate!</i> 488-489	SE: 52-59 <i>A Closer Look</i> 68-69 <i>Earth Science Connection</i> 192 <i>Life Science Connection</i> 350-351	SE: 470-495, 643-647 <i>Science & Society</i> 496-497	SE: 22-46, 50-76, 80-104, 129, 164-165, 262-288, 356-380, 384-408, 448-474, 745	SE: 405-432, 437-462, 467-490, 495-518
5.11 All students will gain an understanding of the origin, evolution, and structure of the universe.	SE: 523-527, 608, 611, 614-617, 621-624 <i>Earth Science Connection</i> 524-525 <i>Investigate!</i> 618-619	SE: <i>How Do We Know?</i> 283	SE: 504-527, 536-539, 598-619, 630-633, 637-639 <i>Design Your Own Investigation</i> 518-519, 610-611 <i>Explore</i> 503, 597, 627 <i>Investigate!</i> 512-513	SE: 770-771, 772-773, 774	SE: 377-395, 396-400
5.12 All students will develop an understanding of the environment as a system of interdependent components affected by human activity and natural phenomena.	SE: 346-353, 356-359, 361-370, 506-513, 516-527 <i>Design Your Own Investigation</i> 508-509 <i>Investigate!</i> 514-515 <i>Science & Society</i> 337-338, 372-373, 528-529	SE: 370-371, 375 <i>A Closer Look</i> 470-471 <i>Find Out</i> 373 <i>Life Science Connection</i> 460-461 <i>Science & Society</i> 204-205, 384-385, 476-477	SE: 540-545 <i>A Closer Look</i> 542-543 <i>Design Your Own Investigation</i> 546-547 <i>Explore</i> 535 <i>Life Science Connection</i> 292-293	SE: 2-14, 110-113, 114-138, 142-166, 170-196, 236-258, 262-288 <i>Science and Society</i> 92-93	SE: 175-202, 336 <i>Problem Solving</i> 163