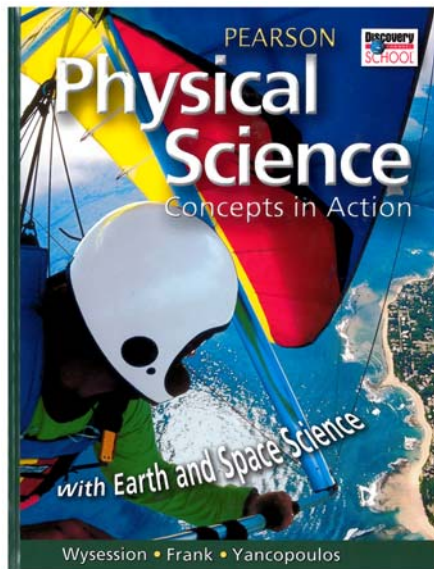


A Correlation of

Physical Science
Concepts in Action
With Earth & Space Science
©2011



To the

Common Core Standards for
Literacy in Science
and Technical Subjects

Grades 9-12

**Physical Science: Concepts in Action, With Earth & Space Science ©2011
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INTRODUCTION

This document demonstrates how Pearson's *Physical Science: Concepts in Action, with Earth & Space Science © 2011* meets the Common Core Standards for Literacy in Science and Technical Subjects, grades 9-12. Correlation page references are to the Student and Teacher's Editions and cited at the page level.

Physical Science: Concepts in Action helps students make the important connection between the science they read and what they experience every day. Relevant content, lively explorations and a wealth of hands-on activities take students' understanding of science beyond the page and into the world around them.

Concepts in Action with Earth & Space Science includes five additional chapters: *Earth's Interior*, *Earth's Surface*, *Weather and Climate*, *The Solar System*, *Exploring the Universe*.

21st Century Skills

Each chapter in *Physical Science* begins with an activity geared toward developing one or more 21st century skills. All of these activities task students to capture what they are learning in biology class and apply the knowledge to solving real-life problems in order to encourage productive, thoughtful members of the 21st century world.

Virtual Physical Science

A Pearson exclusive, this is the most robust interactive lab available. A proven formula for reading success before during, and after every lesson enables students to fully understand key concepts.

The Complete Interactive Textbook

Available online and on CD-ROM. Audio of the full text read-aloud supports English language learners and reluctant readers. PresentationEXPRESS helps you create dynamic presentations with slides, videos, and participatory activities.

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Common Core Standards for Literacy in Science & Technical Subjects Grades 9-12	Physical Science: Concepts in Action, With Earth & Space Science ©2011
Reading Standards for Literacy in Science and Technical Subjects 9-10	
Grades 9–10 students:	
Key Ideas and details	
<p>RST.9-10.1. Cite specific textual evidence to support analysis of science and technical texts, attending to the precise details of explanations or descriptions.</p>	<p>SE/TE: 1, 4, 6, 8, 10, 11, 17, 19, 20, 25, 40, 43, 44, 46, 50, 51, 55, 57, 58, 70, 73, 74, 76, 79, 81, 86, 89, 91, 101, 103, 105, 110, 112, 116, 118, 128, 129, 134, 138, 140, 142, 145, 161, 162, 164, 167, 169, 172, 175, 177, 181, 193, 197, 198, 200, 202, 205, 207, 209, 213, 215, 217, 219, 229, 230, 232, 234, 236, 239, 243, 245, 247, 249, 264, 266, 269, 274, 276, 279, 280, 283, 284, 294, 297, 299, 301, 304, 305, 311, 315, 331, 334, 337, 345, 348, 357, 358, 360, 362, 364, 369, 373, 377, 379, 381, 382, 391, 393, 396, 397, 404, 413, 414, 416, 418, 420, 421, 424, 426, 429, 431, 433, 435, 449, 451, 452, 454, 457, 459, 464, 466, 475, 476, 478, 481, 483, 489, 490, 491, 492, 502, 503, 505, 507, 509, 510, 512, 515, 521, 533, 536, 537, 538, 540, 543, 544, 545, 548, 549, 551, 553, 559, 562, 572, 573, 577, 578, 583, 585, 589, 590, 592, 601, 603, 607, 609, 610, 613, 619, 622, 633, 636, 638, 639, 644, 646, 647, 661, 662, 663, 665, 666, 669, 673, 675, 678, 683, 685, 687, 689, 693, 696, 707, 708, 711, 712, 715, 717, 721, 723, 724, 727, 729, 735, 738, 748, 750, 751, 753, 754, 757, 759, 761, 763, 764, 767, 769, 771, 776, 777, 784, 786, 798, 801, 805, 808, 813, 817, 819, 823, 824, 833, 835, 837, 841, 843, 845, 847, 848, 852, 853, 857, 859</p>
<p>RST.9-10.2. Determine the central ideas or conclusions of a text; trace the text's explanation or depiction of a complex process, phenomenon, or concept; provide an accurate summary of the text.</p>	<p>SE/TE: xviii, 6, 11, 20, 24, 25, 36, 42, 44, 51, 55, 58, 66, 71, 74, 81, 91, 98, 105, 112, 118, 124, 129, 138, 145, 156, 160, 164, 169, 175, 181, 190, 198, 205, 209, 215, 219, 226, 234, 239, 245, 249, 260, 269, 273, 274, 280, 284, 290, 297, 301, 305, 313, 315, 326, 331, 339, 348, 354, 362, 369, 377, 382, 388, 392, 393, 397, 404, 410, 416, 420, 426, 433, 435, 444, 452, 459, 463, 466, 472, 478, 483, 491, 492, 498, 503, 507, 512, 521, 530, 538, 542, 545, 549, 553, 562, 568, 573, 575, 578, 585, 592, 598, 603, 607, 613, 622, 628, 633, 639, 647, 658, 663, 667, 669, 675, 683, 689, 696, 702, 708, 712, 717, 724, 729, 738, 744, 751, 754, 759, 764, 771, 775, 777, 783, 786, 792, 798, 805, 813, 819, 824, 830, 837, 843, 848, 853, 857, 859</p>

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RST.9-10.3. Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks attending to special cases or exceptions defined in the text.	SE/TE: 1, 18, 26, 46, 56, 60, 67, 79, 90, 92, 102, 117, 119, 128, 135, 150, 157, 167, 173, 184, 191, 196, 203, 214, 220, 227, 232, 238, 243, 248, 254, 265, 278, 285, 300, 304, 316, 327, 330, 349, 360, 365, 380, 383, 389, 401, 405, 411, 424, 429, 438, 450, 454, 467, 473, 476, 481, 493, 502, 505, 524, 544, 563, 585, 593, 606, 612, 623, 629, 632, 637, 648, 671, 687, 705, 714, 739, 766, 787, 823, 825, 836, 859, 860
Craft and Structure	
RST.9-10.4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to <i>grades 9–10 texts and topics</i> .	<p>SE/TE: 17, 20, 39, 45, 78, 79, 80, 109, 127, 132, 133, 134, 138, 147, 148, 149, 159, 166, 171, 172, 182, 183, 206, 210, 211, 212, 230, 246, 293, 295, 300, 306, 308, 310, 333, 345, 363, 365, 367, 368, 372, 378, 400, 415, 421, 425, 434, 446, 449, 463, 465, 477, 479, 500, 504, 574, 611, 612, 660, 682, 684, 691, 704, 707, 752, 778, 800, 832, 838</p> <p>TE Only: 2, 7, 14, 22, 38, 54, 68, 75, 84, 100, 108, 113, 126, 130, 139, 158, 165, 170, 176, 192, 199, 216, 228, 235, 240, 262, 272, 275, 282, 292, 298, 303, 328, 332, 342, 356, 390, 394, 412, 417, 427, 453, 462, 474, 486, 508, 514, 532, 539, 546, 550, 558, 570, 580, 588, 600, 604, 609, 618, 630, 635, 642, 664, 670, 676, 690, 707, 713, 719, 725, 732, 746, 755, 760, 765, 774, 794, 807, 814, 822, 838, 844, 850, 856</p>

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<p align="center">Common Core Standards for Literacy in Science & Technical Subjects Grades 9-12</p>	<p align="center">Physical Science: Concepts in Action, With Earth & Space Science ©2011</p>
<p>RST.9-10.5. Analyze the structure of the relationships among concepts in a text, including relationships among key terms (e.g., <i>force, friction, reaction force, energy</i>).</p>	<p>SE/TE: 3, 7, 14, 22, 28, 38, 45, 51, 54, 58, 62, 68, 74, 75, 84, 94, 100, 108, 112, 113, 120, 126, 130, 139, 145, 152, 158, 164, 165, 169, 170, 176, 181, 186, 192, 199, 205, 206, 209, 212, 215, 216, 219, 222, 228, 234, 235, 239, 240, 245, 246, 256, 262, 269, 272, 274, 275, 280, 282, 286, 292, 298, 303, 304, 310, 315, 318, 319, 328, 332, 342, 350, 356, 362, 363, 372, 378, 384, 390, 394, 397, 400, 406, 412, 417, 420, 421, 427, 440, 446, 453, 462, 468, 474, 479, 483, 486, 494, 500, 503, 504, 508, 514, 521, 526, 532, 539, 546, 549, 550, 558, 562, 564, 570, 574, 578, 580, 585, 588, 594, 600, 604, 609, 618, 622, 624, 630, 633, 639, 642, 650, 660, 664, 669, 670, 676, 683, 690, 698, 704, 708, 709, 712, 713, 719, 725, 729, 732, 740, 746, 752, 755, 759, 760, 764, 765, 771, 774, 778, 786, 788, 794, 800, 807, 814, 819, 822, 826, 832, 838, 844, 853, 856, 859, 862</p>

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<p>RST.9-10.6. Analyze the author’s purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, defining the question the author seeks to address.</p>	<p>SE/TE: 12, 14, 20, 24, 37, 42, 52, 59, 71, 80, 81, 82, 99, 106, 109, 125, 146, 148, 160, 174, 175, 182, 195, 198, 210, 218, 250, 252, 261, 270, 273, 281, 295, 302, 306, 333, 337, 338, 340, 355, 367, 369, 370, 377, 392, 393, 398, 415, 416, 425, 426, 433, 436, 445, 448, 452, 458, 459, 460, 463, 477, 478, 484, 491, 499, 506, 507, 513, 522, 531, 535, 538, 542, 554, 556, 559, 569, 571, 575, 579, 586, 587, 599, 608, 611, 612, 613, 614, 616, 621, 640, 646, 659, 667, 689, 694, 703, 718, 730, 734, 738, 745, 749, 751, 772, 775, 783, 793, 798, 805, 806, 820, 831, 843, 854, 857</p> <p>TE Only: 1, 3, 6, 8, 9, 10, 16, 18, 38, 43, 48, 50, 55, 58, 69, 72, 73, 75, 76, 79, 86, 89, 101, 104, 110, 112, 114, 116, 129, 134, 138, 143, 159, 165, 168, 169, 171, 177, 180, 191, 193, 197, 200, 201, 207, 208, 209, 213, 214, 216, 217, 229, 231, 234, 236, 237, 240, 243, 244, 248, 249, 251, 263, 264, 267, 272, 274, 283, 284, 291, 292, 294, 299, 300, 303, 307, 311, 315, 329, 330, 334, 336, 343, 344, 357, 358, 360, 361, 364, 365, 371, 373, 374, 379, 383, 389, 391, 394, 395, 401, 403, 411, 413, 414, 417, 423, 424, 427, 430, 437, 450, 451, 456, 457, 461, 464, 466, 473, 475, 480, 481, 482, 489, 490, 501, 502, 505, 508, 509, 510, 512, 515, 518, 524, 537, 541, 543, 544, 547, 548, 552, 553, 561, 572, 576, 577, 581, 584, 587, 588, 593, 601, 602, 605, 610, 612, 629, 631, 632, 633, 636, 638, 643, 644, 662, 666, 668, 671, 672, 674, 676, 680, 684, 685, 686, 687, 696, 706, 707, 710, 711, 714, 716, 720, 723, 726, 737, 739, 747, 748, 750, 751, 754, 755, 757, 758, 761, 769, 776, 782, 784, 802, 807, 809, 813, 815, 817, 822, 823, 825, 833, 835, 836, 837, 842, 845, 847, 850, 858</p>

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Integration of Knowledge and Ideas	
RST.9-10.7. Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.	SE/TE: 4, 14, 16, 17, 19, 20, 22, 23, 24, 47, 78, 79, 80, 85, 88, 109, 112, 117, 127, 134, 161, 171, 173, 175, 193, 194, 196, 197, 198, 200, 202, 203, 215, 217, 219, 235, 237, 238, 239, 240, 244, 245, 265, 266, 268, 273, 278, 280, 283, 297, 310, 311, 330, 333, 334, 345, 348, 365, 368, 375, 391, 413, 415, 422, 425, 426, 447, 448, 449, 457, 458, 477, 505, 535, 543, 607, 611, 747, 776, 784, 808, 815
RST.9-10.8. Assess the extent to which the reasoning and evidence in a text support the author's claim or a recommendation for solving a scientific or technical problem.	SE/TE: 26, 59, 60, 92, 119, 150, 184, 220, 254, 281, 285, 302, 316, 349, 383, 405, 438, 467, 493, 513, 524, 563, 579, 583, 608, 623, 648, 718, 739, 787, 806, 825, 860
RST.9-10.9. Compare and contrast findings presented in a text to those from other sources (including their own experiments), noting when the findings support or contradict previous explanations or accounts.	<p>SE/TE: 12, 21, 26, 37, 49, 52, 60, 82, 87, 92, 106, 109, 110, 111, 119, 150, 163, 184, 201, 210, 218, 220, 233, 250, 252, 254, 270, 277, 285, 291, 306, 314, 316, 335, 338, 340, 349, 366, 370, 383, 398, 402, 405, 434, 436, 438, 460, 465, 467, 484, 488, 493, 520, 524, 554, 556, 560, 563, 572, 586, 587, 591, 593, 614, 616, 620, 621, 623, 634, 640, 646, 648, 688, 694, 722, 730, 734, 739, 756, 772, 787, 799, 820, 828, 849, 854, 860</p> <p>TE Only: 8, 10, 18, 43, 48, 50, 55, 69, 72, 75, 76, 86, 104, 116, 138, 147, 168, 169, 177, 180, 195, 197, 200, 208, 213, 216, 231, 236, 237, 243, 244, 251, 264, 267, 272, 283, 284, 294, 299, 307, 311, 329, 334, 344, 357, 365, 367, 373, 374, 379, 391, 394, 403, 413, 423, 430, 437, 451, 456, 461, 464, 478, 480, 482, 490, 501, 508, 512, 515, 537, 538, 541, 547, 548, 553, 561, 576, 577, 581, 584, 587, 601, 610, 631, 636, 638, 643, 666, 672, 680, 685, 686, 706, 710, 720, 726, 748, 751, 757, 758, 782, 809, 813, 817, 833, 835, 837, 847</p>

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Range of Reading and Level of Text Complexity	
RST.9-10.10. By the end of grade 10, read and comprehend science/technical texts in the grades 9–10 text complexity band independently and proficiently.	SE/TE: 6, 11, 20, 25, 44, 51, 58, 74, 81, 91, 105, 112, 118, 129, 138, 145, 164, 169, 175, 198, 205, 209, 215, 219, 234, 239, 245, 249, 269, 274, 280, 284, 297, 301, 305, 315, 331, 337, 348, 362, 369, 377, 382, 393, 397, 404, 416, 420, 426, 435, 452, 459, 466, 478, 483, 492, 503, 507, 512, 521, 538, 545, 549, 553, 562, 573, 578, 585, 592, 603, 607, 622, 633, 639, 647, 663, 669, 675, 683, 689, 696, 708, 712, 717, 724, 729, 738, 751, 754, 759, 764, 771, 777, 786, 798, 805, 813, 819, 824, 837, 843, 848, 853, 859
Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects	
Grades 9–10 students:	
Text types and Purposes	
WHST.9-10.1. Write arguments focused on <i>discipline-specific content</i> .	SE/TE: 107, 109, 129, 149, 271, 466, 553, 777
WHST.9-10.2. Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
WHST.9-10.3. (See note; not applicable as a separate requirement)	(See note; not applicable as a separate requirement)
Production and distribution of Writing	
WHST.9-10.4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
WHST.9-10.5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	SE/TE: 109, 129, 492, 553, 557, 777

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WHST.9-10.6. Use technology, including the Internet, to produce, publish, and update individual or shared writing products, taking advantage of technology's capacity to link to other information and to display information flexibly and dynamically.	SE/TE: 53, 83, 109, 115, 129, 149, 211, 253, 271, 307, 313, 341, 371, 399, 461, 466, 485, 492, 519, 523, 553, 587, 617, 641, 681, 695, 696, 731, 773, 777, 821, 855
Research to Build and Present Knowledge	
WHST.9-10.7. Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	SE/TE: 53, 83, 107, 109, 115, 129, 149, 211, 253, 271, 307, 313, 341, 371, 399, 461, 466, 485, 492, 519, 523, 553, 587, 617, 641, 681, 695, 696, 731, 773, 777, 821, 855
WHST.9-10.8. Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the usefulness of each source in answering the research question; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and following a standard format for citation.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
WHST.9-10.9. Draw evidence from informational texts to support analysis, reflection, and research.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
Range of Writing	
WHST.9-10.10. Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 107, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855

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Reading Standards for Literacy in Science and Technical Subjects	
Grades 11-12 students:	
Key Ideas and Details	
RST.11-12.1. Cite specific textual evidence to support analysis of science and technical texts, attending to important distinctions the author makes and to any gaps or inconsistencies in the account.	SE/TE: 1, 4, 6, 8, 10, 11, 17, 19, 20, 25, 40, 43, 44, 46, 50, 51, 55, 57, 58, 70, 73, 74, 76, 79, 81, 86, 89, 91, 101, 103, 105, 110, 112, 116, 118, 128, 129, 134, 138, 140, 142, 145, 161, 162, 164, 167, 169, 172, 175, 177, 181, 193, 197, 198, 200, 202, 205, 207, 209, 213, 215, 217, 219, 229, 230, 232, 234, 236, 239, 243, 245, 247, 249, 264, 266, 269, 274, 276, 279, 280, 283, 284, 294, 297, 299, 301, 304, 305, 311, 315, 331, 334, 337, 345, 348, 357, 358, 360, 362, 364, 369, 373, 377, 379, 381, 382, 391, 393, 396, 397, 404, 413, 414, 416, 418, 420, 421, 424, 426, 429, 431, 433, 435, 449, 451, 452, 454, 457, 459, 464, 466, 475, 476, 478, 481, 483, 489, 490, 491, 492, 502, 503, 505, 507, 509, 510, 512, 515, 521, 533, 536, 537, 538, 540, 543, 544, 545, 548, 549, 551, 553, 559, 562, 572, 573, 577, 578, 583, 585, 589, 590, 592, 601, 603, 607, 609, 610, 613, 619, 622, 633, 636, 638, 639, 644, 646, 647, 661, 662, 663, 665, 666, 669, 673, 675, 678, 683, 685, 687, 689, 693, 696, 707, 708, 711, 712, 715, 717, 721, 723, 724, 727, 729, 735, 738, 748, 750, 751, 753, 754, 757, 759, 761, 763, 764, 767, 769, 771, 776, 777, 784, 786, 798, 801, 805, 808, 813, 817, 819, 823, 824, 833, 835, 837, 841, 843, 845, 847, 848, 852, 853, 857, 859
RST.11-12.2. Determine the central ideas or conclusions of a text; summarize complex concepts, processes, or information presented in a text by paraphrasing them in simpler but still accurate terms.	SE/TE: xviii, 6, 11, 20, 24, 25, 36, 42, 44, 51, 55, 58, 66, 71, 74, 81, 91, 98, 105, 112, 118, 124, 129, 138, 145, 156, 160, 164, 169, 175, 181, 190, 198, 205, 209, 215, 219, 226, 234, 239, 245, 249, 260, 269, 273, 274, 280, 284, 290, 297, 301, 305, 313, 315, 326, 331, 339, 348, 354, 362, 369, 377, 382, 388, 392, 393, 397, 404, 410, 416, 420, 426, 433, 435, 444, 452, 459, 463, 466, 472, 478, 483, 491, 492, 498, 503, 507, 512, 521, 530, 538, 542, 545, 549, 553, 562, 568, 573, 575, 578, 585, 592, 598, 603, 607, 613, 622, 628, 633, 639, 647, 658, 663, 667, 669, 675, 683, 689, 696, 702, 708, 712, 717, 724, 729, 738, 744, 751, 754, 759, 764, 771, 775, 777, 783, 786, 792, 798, 805, 813, 819, 824, 830, 837, 843, 848, 853, 857, 859

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RST.11-12.3. Follow precisely a complex multistep procedure when carrying out experiments, taking measurements, or performing technical tasks; analyze the specific results based on explanations in the text.	SE/TE: 1, 18, 26, 46, 56, 60, 67, 79, 90, 92, 102, 117, 119, 128, 135, 150, 157, 167, 173, 184, 191, 196, 203, 214, 220, 227, 232, 238, 243, 248, 254, 265, 278, 285, 300, 304, 316, 327, 330, 349, 360, 365, 380, 383, 389, 401, 405, 411, 424, 429, 438, 450, 454, 467, 473, 476, 481, 493, 502, 505, 524, 544, 563, 585, 593, 606, 612, 623, 629, 632, 637, 648, 671, 687, 705, 714, 739, 766, 787, 823, 825, 836, 859, 860
Craft and Structure	
RST.11-12.4. Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 11–12 texts and topics.	<p>SE/TE: 17, 20, 39, 45, 78, 79, 80, 109, 127, 132, 133, 134, 138, 147, 148, 149, 159, 166, 171, 172, 182, 183, 206, 210, 211, 212, 230, 246, 293, 295, 300, 306, 308, 310, 333, 345, 363, 365, 367, 368, 372, 378, 400, 415, 421, 425, 434, 446, 449, 463, 465, 477, 479, 500, 504, 574, 611, 612, 660, 682, 684, 691, 704, 707, 752, 778, 800, 832, 838</p> <p>TE Only: 2, 7, 14, 22, 38, 54, 68, 75, 84, 100, 108, 113, 126, 130, 139, 158, 165, 170, 176, 192, 199, 216, 228, 235, 240, 262, 272, 275, 282, 292, 298, 303, 328, 332, 342, 356, 390, 394, 412, 417, 427, 453, 462, 474, 486, 508, 514, 532, 539, 546, 550, 558, 570, 580, 588, 600, 604, 609, 618, 630, 635, 642, 664, 670, 676, 690, 707, 713, 719, 725, 732, 746, 755, 760, 765, 774, 794, 807, 814, 822, 838, 844, 850, 856</p>

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<p>RST.11-12.5. Analyze how the text structures information or ideas into categories or hierarchies, demonstrating understanding of the information or ideas.</p>	<p>SE/TE: 3, 7, 14, 22, 28, 38, 45, 51, 54, 58, 62, 68, 74, 75, 84, 94, 100, 108, 112, 113, 120, 126, 130, 139, 145, 152, 158, 164, 165, 169, 170, 176, 181, 186, 192, 199, 205, 206, 209, 212, 215, 216, 219, 222, 228, 234, 235, 239, 240, 245, 246, 256, 262, 269, 272, 274, 275, 280, 282, 286, 292, 298, 303, 304, 310, 315, 318, 319, 328, 332, 342, 350, 356, 362, 363, 372, 378, 384, 390, 394, 397, 400, 406, 412, 417, 420, 421, 427, 440, 446, 453, 462, 468, 474, 479, 483, 486, 494, 500, 503, 504, 508, 514, 521, 526, 532, 539, 546, 549, 550, 558, 562, 564, 570, 574, 578, 580, 585, 588, 594, 600, 604, 609, 618, 622, 624, 630, 633, 639, 642, 650, 660, 664, 669, 670, 676, 683, 690, 698, 704, 708, 709, 712, 713, 719, 725, 729, 732, 740, 746, 752, 755, 759, 760, 764, 765, 771, 774, 778, 786, 788, 794, 800, 807, 814, 819, 822, 826, 832, 838, 844, 853, 856, 859, 862</p>

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<p>RST.11-12.6. Analyze the author's purpose in providing an explanation, describing a procedure, or discussing an experiment in a text, identifying important issues that remain unresolved.</p>	<p>SE/TE: 12, 14, 20, 24, 37, 42, 52, 59, 71, 80, 81, 82, 99, 106, 109, 125, 146, 148, 160, 174, 175, 182, 195, 198, 210, 218, 250, 252, 261, 270, 273, 281, 295, 302, 306, 333, 337, 338, 340, 355, 367, 369, 370, 377, 392, 393, 398, 415, 416, 425, 426, 433, 436, 445, 448, 452, 458, 459, 460, 463, 477, 478, 484, 491, 499, 506, 507, 513, 522, 531, 535, 538, 542, 554, 556, 559, 569, 571, 575, 579, 586, 587, 599, 608, 611, 612, 613, 614, 616, 621, 640, 646, 659, 667, 689, 694, 703, 718, 730, 734, 738, 745, 749, 751, 772, 775, 783, 793, 798, 805, 806, 820, 831, 843, 854, 857</p> <p>TE Only: 1, 3, 6, 8, 9, 10, 16, 18, 38, 43, 48, 50, 55, 58, 69, 72, 73, 75, 76, 79, 86, 89, 101, 104, 110, 112, 114, 116, 129, 134, 138, 143, 159, 165, 168, 169, 171, 177, 180, 191, 193, 197, 200, 201, 207, 208, 209, 213, 214, 216, 217, 229, 231, 234, 236, 237, 240, 243, 244, 248, 249, 251, 263, 264, 267, 272, 274, 283, 284, 291, 292, 294, 299, 300, 303, 307, 311, 315, 329, 330, 334, 336, 343, 344, 357, 358, 360, 361, 364, 365, 371, 373, 374, 379, 383, 389, 391, 394, 395, 401, 403, 411, 413, 414, 417, 423, 424, 427, 430, 437, 450, 451, 456, 457, 461, 464, 466, 473, 475, 480, 481, 482, 489, 490, 501, 502, 505, 508, 509, 510, 512, 515, 518, 524, 537, 541, 543, 544, 547, 548, 552, 553, 561, 572, 576, 577, 581, 584, 587, 588, 593, 601, 602, 605, 610, 612, 629, 631, 632, 633, 636, 638, 643, 644, 662, 666, 668, 671, 672, 674, 676, 680, 684, 685, 686, 687, 696, 706, 707, 710, 711, 714, 716, 720, 723, 726, 737, 739, 747, 748, 750, 751, 754, 755, 757, 758, 761, 769, 776, 782, 784, 802, 807, 809, 813, 815, 817, 822, 823, 825, 833, 835, 836, 837, 842, 845, 847, 850, 858</p>

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Integration of Knowledge and Ideas	
RST.11-12.7. Integrate and evaluate multiple sources of information presented in diverse formats and media (e.g., quantitative data, video, multimedia) in order to address a question or solve a problem.	SE/TE: 1, 8, 13, 21, 23, 37, 49, 52, 67, 82, 87, 99, 107, 111, 125, 133, 148, 157, 163, 183, 191, 194, 201, 211, 227, 233, 253, 261, 263, 270, 277, 291, 307, 314, 327, 335, 341, 355, 366, 371, 376, 389, 399, 402, 411, 434, 437, 445, 461, 465, 473, 485, 487, 488, 499, 511, 520, 523, 531, 544, 557, 560, 569, 573, 577, 587, 591, 599, 617, 620, 629, 634, 641, 659, 688, 695, 703, 706, 722, 731, 745, 756, 768, 773, 793, 799, 803, 821, 831, 849, 855
RST.11-12.8. Evaluate the hypotheses, data, analysis, and conclusions in a science or technical text, verifying the data when possible and corroborating or challenging conclusions with other sources of information.	SE/TE: 26, 59, 60, 92, 119, 150, 184, 220, 254, 281, 285, 302, 316, 349, 383, 405, 438, 467, 493, 513, 524, 563, 579, 583, 608, 623, 648, 718, 739, 787, 806, 825, 860
RST.11-12.9. Synthesize information from a range of sources (e.g., texts, experiments, simulations) into a coherent understanding of a process, phenomenon, or concept, resolving conflicting information when possible.	<p>SE/TE: 12, 21, 26, 37, 49, 52, 60, 82, 87, 92, 106, 109, 110, 111, 119, 150, 163, 184, 201, 210, 218, 220, 233, 250, 252, 254, 270, 277, 285, 291, 306, 314, 316, 335, 338, 340, 349, 366, 370, 383, 398, 402, 405, 434, 436, 438, 460, 465, 467, 484, 488, 493, 520, 524, 554, 556, 560, 563, 572, 586, 587, 591, 593, 614, 616, 620, 621, 623, 634, 640, 646, 648, 688, 694, 722, 730, 734, 739, 756, 772, 787, 799, 820, 828, 849, 854, 860</p> <p>TE Only: 8, 10, 18, 43, 48, 50, 55, 69, 72, 75, 76, 86, 104, 116, 138, 147, 168, 169, 177, 180, 195, 197, 200, 208, 213, 216, 231, 236, 237, 243, 244, 251, 264, 267, 272, 283, 284, 294, 299, 307, 311, 329, 334, 344, 357, 365, 367, 373, 374, 379, 391, 394, 403, 413, 423, 430, 437, 451, 456, 461, 464, 478, 480, 482, 490, 501, 508, 512, 515, 537, 538, 541, 547, 548, 553, 561, 576, 577, 581, 584, 587, 601, 610, 631, 636, 638, 643, 666, 672, 680, 685, 686, 706, 710, 720, 726, 748, 751, 757, 758, 782, 809, 813, 817, 833, 835, 837, 847</p>

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Range of Reading and Level of Text Complexity	
RST.11-12.10. By the end of grade 12, read and comprehend science/technical texts in the grades 11–12 text complexity band independently and proficiently.	SE/TE: 6, 11, 20, 25, 44, 51, 58, 74, 81, 91, 105, 112, 118, 129, 138, 145, 164, 169, 175, 198, 205, 209, 215, 219, 234, 239, 245, 249, 269, 274, 280, 284, 297, 301, 305, 315, 331, 337, 348, 362, 369, 377, 382, 393, 397, 404, 416, 420, 426, 435, 452, 459, 466, 478, 483, 492, 503, 507, 512, 521, 538, 545, 549, 553, 562, 573, 578, 585, 592, 603, 607, 622, 633, 639, 647, 663, 669, 675, 683, 689, 696, 708, 712, 717, 724, 729, 738, 751, 754, 759, 764, 771, 777, 786, 798, 805, 813, 819, 824, 837, 843, 848, 853, 859
Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects	
Grades 11–12 students:	
Text Types and Purposes	
WHST.11-12.1. Write arguments focused on discipline-specific content.	SE/TE: 107, 109, 129, 149, 271, 466, 553, 777
WHST.11-12.2. Write informative/explanatory texts, including the narration of historical events, scientific procedures/ experiments, or technical processes.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
WHST.11-12.3. (See note; not applicable as a separate requirement)	(See note; not applicable as a separate requirement)
Production and Distribution of Writing	
WHST.11-12.4. Produce clear and coherent writing in which the development, organization, and style are appropriate to task, purpose, and audience.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855

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WHST.11-12.5. Develop and strengthen writing as needed by planning, revising, editing, rewriting, or trying a new approach, focusing on addressing what is most significant for a specific purpose and audience.	SE/TE: 109, 129, 492, 553, 557, 777
WHST.11-12.6. Use technology, including the Internet, to produce, publish, and update individual or shared writing products in response to ongoing feedback, including new arguments or information.	SE/TE: 53, 83, 109, 115, 129, 149, 211, 253, 271, 307, 313, 341, 371, 399, 461, 466, 485, 492, 519, 523, 553, 587, 617, 641, 681, 695, 696, 731, 773, 777, 821, 855
Research to Build and Present Knowledge	
WHST.11-12.7. Conduct short as well as more sustained research projects to answer a question (including a self-generated question) or solve a problem; narrow or broaden the inquiry when appropriate; synthesize multiple sources on the subject, demonstrating understanding of the subject under investigation.	SE/TE: 53, 83, 107, 109, 115, 129, 149, 211, 253, 271, 307, 313, 341, 371, 399, 461, 466, 485, 492, 519, 523, 553, 587, 617, 641, 681, 695, 696, 731, 773, 777, 821, 855
WHST.11-12.8. Gather relevant information from multiple authoritative print and digital sources, using advanced searches effectively; assess the strengths and limitations of each source in terms of the specific task, purpose, and audience; integrate information into the text selectively to maintain the flow of ideas, avoiding plagiarism and overreliance on any one source and following a standard format for citation.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
WHST.11-12.9. Draw evidence from informational texts to support analysis, reflection, and research.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855
Range of Writing	
WHST.11-12.10. Write routinely over extended time frames (time for reflection and revision) and shorter time frames (a single sitting or a day or two) for a range of discipline-specific tasks, purposes, and audiences.	SE/TE: 6, 11, 25, 44, 53, 86, 91, 105, 107, 109, 115, 118, 129, 138, 149, 169, 179, 181, 183, 205, 211, 215, 239, 249, 253, 271, 301, 305, 307, 313, 331, 341, 371, 375, 377, 382, 399, 404, 423, 435, 437, 461, 466, 485, 492, 512, 519, 523, 545, 553, 557, 573, 583, 587, 592, 603, 607, 617, 641, 647, 663, 675, 681, 695, 696, 717, 724, 731, 754, 773, 777, 811, 813, 821, 824, 837, 848, 855