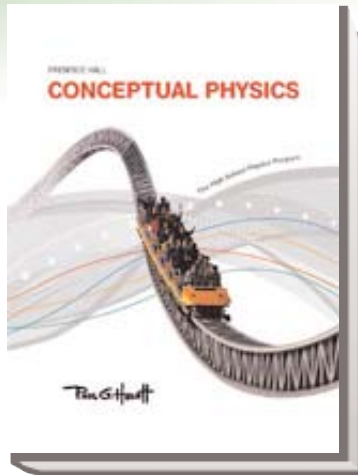


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(SE: 9780133647495, TE: 9780133647501)

Grades 11-12



C O R R E L A T E D T O

Louisiana GLE's for Physics I - course 150700

Grades 11-12



TEACH & LEARN • ASSESS & INFORM • DEVELOP & LEAD

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	TO BE COMPLETED BY PUBLISHER	FOR COMMITTEE MEMBER USE ONLY
GRADE LEVEL EXPECTATIONS	CORRELATION NOTATIONS	✓ if the content of the text material is sufficient to allow students to adequately meet the GLE..
Science as Inquiry - <i>The Grade-Level Expectations (GLEs) from this strand should be interwoven with all content not just taught as a separate unit.</i>		
1. Write a testable question or hypothesis when given a topic (SI-H-A1)	SE:2, 3, 4, 8, 9 TE: 2, 3, 4, 8, 9 TR: Lab Manual Activity 1; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
2. Describe how investigations can be observation, description, literature survey, classification, or experimentation (SI-H-A2)	SE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TR: Lab Manual; Probeware Lab Manual	

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	TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
3. Plan and record step-by-step procedures for a valid investigation, select equipment and materials, and identify variables and controls (SI-H-A2)	<p>SE: 2, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829</p> <p>TE: 2, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829</p> <p>TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics</p>	

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4. Conduct an investigation that includes multiple trials and record, organize, and display data appropriately (SI-H-A2)	<p>SE: 2, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829</p> <p>TE: 2, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829</p> <p>TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics</p>	
5. Utilize mathematics, organizational tools, and graphing skills to solve problems (SI-H-A3)	<p>SE: 1, 8, 9, 27, 42, 45, 64-67, 83, 84, 85, 89, 101, 103-105, 123, 135, 140, 142, 143, 168, 169, 184, 187, 191, 208, 211, 231, 239, 257, 258, 260, 261, 280, 281, 289, 291, 300, 301, 343, 348, 360, 377, 379, 380, 381, 398, 402, 403, 412, 414, 418, 428, 429, 448, 449, 464, 467,</p>	

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	484, 486, 487, 496, 510, 512, 513, 530, 531, 536, 551, 552, 553, 601, 650, 663, 679, 398, 700, 701, 715, 716, 718, 719, 763, 807, 829, 833-834, 835-836, 843-889 TE: : 1, 8, 9, 27, 42, 45, 64-67, 83, 84, 85, 89, 101, 103-105, 123, 135, 140, 142, 143, 168, 169, 184, 187, 191, 208, 211, 231, 239, 257, 258, 260, 261, 280, 281, 289, 291, 300, 301, 343, 348, 360, 377, 379, 380, 381, 398, 402, 403, 412, 414, 418, 428, 429, 448, 449, 464, 467, 484, 486, 487, 496, 510, 512, 513, 530, 531, 536, 551, 552, 553, 601, 650, 663, 679, 398, 700, 701, 715, 716, 718, 719, 763, 807, 829, 833-834, 835-836, 843-889 TR: Lab Manual: Activities 12, 19; Probeware Lab Manual: Activity 2 TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs: Activity 4; Conceptual Physics DVD: Introduction to Conceptual Physics	
6. Use technology when appropriate to enhance laboratory investigations and presentations of findings (SI-H-A3)	SE: 5, 8, 9, 163, 204, 236, 248, 275, 481, 526, 648, 727, 756 TE: 5, 8, 9, 163, 204, 236, 248, 275, 481, 526, 648, 727, 756 TR: Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	

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7. Choose appropriate models to explain scientific knowledge or experimental results (e.g., objects, mathematical relationships, plans, schemes, examples, role-playing, computer simulations) (SI-H-A4)	SE:30-32, 324-327, 335, 345, 436, 493, 533, 767, 768, 772-775 TE: 30-32, 324-327, 335, 345, 436, 493, 533, 767, 768, 772-775 TR: Probeware Lab Manual TECH: Teacher Express CD: Chapter 17, 38; Student Express CD: Chapter 17, 38; Examview CD: Chapter 17, 38; Virtual Physics Labs: Activity 18	
8. Give an example of how new scientific data can cause an existing scientific explanation to be supported, revised, or rejected (SI-H-A5)	SE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TR: TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Conceptual Physics Alive DVD: Introduction to Conceptual Physics	
9. Write and defend a conclusion based on logical analysis of experimental data (SI-H-A6) (SI-H-A2)	SE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369,	

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	381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
10. Given a description of an experiment, identify appropriate safety measures (SI-H-A7)	SE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807,	

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	808, 829 TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
11. Evaluate selected theories based on supporting scientific evidence (SI-H-B1)	SE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Conceptual Physics Alive DVD: Introduction to Conceptual Physics	
12. Cite evidence that scientific investigations are conducted for many different reasons (SI-H-B2)	SE: 2, 3, 8, 9 TE: 2, 3, 8, 9 TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Conceptual Physics Alive DVD: Introduction to Conceptual Physics	
13. Identify scientific evidence that has caused modifications in previously accepted theories (SI-H-B2)	SE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TE: 2, 3, 5, 8, 9, 30-32, 38-39, 233-235, 282, 308, 906 TR: TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Conceptual Physics Alive DVD: Introduction to Conceptual Physics	

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14. Cite examples of scientific advances and emerging technologies and how they affect society (e.g., MRI, DNA in forensics) (SI-H-B3)	SE:5, 7, 8, 9, 163, 204, 236, 248, 275, 481, 526, 648, 727, 756 TE: 5, 7, 8, 9, 163, 204, 236, 248, 275, 481, 526, 648, 727, 756 TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Conceptual Physics Alive DVD: Introduction to Conceptual Physics	
15. Analyze the conclusion from an investigation by using data to determine its validity (SI-H-B4)	SE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student	

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	Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
16. Use the following rules of evidence to examine experimental results: a. Can an expert's technique or theory be tested, has it been tested, or is it simply a subjective, conclusive approach that cannot be reasonably assessed for reliability? b. Has the technique or theory been subjected to peer review and publication? c. What is the known or potential rate of error of the technique or theory when applied? d. Were standards and controls applied and maintained? e. Has the technique or theory been generally accepted in the scientific community? (SI-H-B5) (SI-H-B1) (SI-H-B4)	SE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TE: 2, 3, 8, 9, 12, 28, 45, 46, 55, 67, 68, 75, 76, 86, 88, 97, 105, 106, 109, 124, 132, 143, 144, 147, 169, 170, 173, 179, 188, 190, 200, 211, 212, 215, 231, 232, 253, 262, 267, 282, 302, 321, 324, 326, 344, 352, 362, 364, 369, 381, 382, 387, 403, 406, 409, 419, 430, 433, 435, 436, 449, 450, 455, 467, 468, 471, 478, 490, 494, 513, 514, 531, 532, 539, 544, 554, 559, 563, 577, 578, 581, 590, 601, 602, 615, 621, 622, 627, 632, 641, 644, 655, 664, 680, 701, 702, 719, 720, 725, 739, 740, 766, 782, 807, 808, 829 TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 1; Student Express CD: Chapter 1; Examview CD: Chapter 1; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	

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Physical Science		
Measurement and Symbolic Representation		
1. Measure and determine the physical quantities of an object or unknown sample using correct prefixes and metric system units (e.g., mass, charge, pressure, volume, temperature, density) (PS-H-A1)	SE: 36, 37, 38, 345-349, 363-372, 384-388, 407-408, 411-415, 419-422, 455-456, 830-831 TE: 36, 37, 38, 345-349, 363-372, 384-388, 407-408, 411-415, 419-422, 455-456, 830-831 TR: Lab Manual: Activities 47, 48, 50, 51, 54, 55, 56, 57, 58; Probeware Lab Manual: Activities 10, 11, 12 TECH: Teacher Express CD: Chapter 3, 18, 19, 20, 21, 23; Student Express CD: Chapter 3, 18, 19, 20, 21, 23; Examview CD: Chapter 3, 18, 19, 20, 21, 23; Virtual Physics Labs: Activities 20, 21, 22, 23; Conceptual Physics DVD: Introduction to Conceptual Physics, Liquids I and II, Gases, Heat, Temperature and Expansion, Heat and Change of State	
2. Determine and record measurements correctly using significant digits and scientific notation (PS-H-A1)	SE: 38, 239,412, 830,831, 833, 891 TE: 38, 239,412, 830,831, 833, 891 TR: Lab Manual; Probeware Lab Manual TECH: Teacher Express CD: Chapter 3; Student Express CD: Chapter 3; Examview CD: Chapter 3; Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	

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3. Determine accuracy and precision of measured data (PS-H-A1)	SE: 831-833 TE: 831-833 TR: Lab Manual; Probeware Lab Manual TECH: Virtual Physics Labs; Conceptual Physics DVD: Introduction to Conceptual Physics	
4. Perform dimensional analysis to verify problem set-up (PS-H-A1)	SE: 353-355 TE: 353-355 TR: Lab Manual: Activity 50 TECH: Teacher Express CD: Chapter 18; Student Express CD: Chapter 18; Examview CD: Chapter 18	
5. Use trigonometric functions to make indirect measurements (PS-H-A1)	SE: 20, 21, 70-72, 136, 176, 177, 591 TE: 20, 21, 70-72, 136, 176, 177, 591 TR: Lab Manual: Activities 3, 4, 5 TECH: Teacher Express CD: Chapter 2, 5, 8, 10; Student Express CD: Chapter 2, 5, 8, 10; Examview CD: Chapter 2, 5, 8, 10; <i>Conceptual Physics</i> DVD: Vectors and Projectiles	
Forces and Motion		
6. Explain the role of strong nuclear forces and why they are the strongest of all forces (PS-H-E1)	SE: 113, 23, 249, 331-333, 334-335, 783-784, 809-812, 817-822 TE: 113, 23, 249, 331-333, 334-335, 783-784, 809-812, 817-822 TR: Lab Manual: Activities 103 TECH: Teacher Express CD: Chapter 17, 39, 40; Student Express CD: Chapter 17, 39, 40; Examview CD: Chapter 17, 39, 40; Virtual Physics	

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	Labs: Activities 18; Conceptual Physics DVD: Atoms, Fission and Fusion	
7. Relate gravitational force to mass and distance (PS-H-E1)	SE: 73-79, 80-85, 93-95, 110-111, 237-241, 245-246, 250-251, 254 TE: 73-79, 80-85, 93-95, 110-111, 237-241, 245-246, 250-251, 254 TR: Lab Manual: Activities 14, 15 TECH: Teacher Express CD: Chapter 5, 6, 7, 13; Student Express CD: Chapter 5, 6, 7, 13; Examview CD: Chapter 5, 6, 7, 13; Virtual Physics Labs: Activities 6, 15, 16; Conceptual Physics DVD: Gravity I and II	
8. Compare and calculate electrostatic forces acting within and between atoms to the gravitational forces acting between atoms (PS-H-E1)	SE: 242-243, 333-335 TE: 242-243, 333-335 TR: Lab Manual: Activities 103 TECH: Teacher Express CD: Chapter 13, 17; Student Express CD: Chapter 13, 17; Examview CD: Chapter 13, 17; Virtual Physics Labs: Activities 16; Conceptual Physics DVD: Gravity I and II	
9. Describe and measure motion in terms of position, displacement time, and the derived quantities of velocity and acceleration (PS-H-E2)	SE: 29, 30, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61-67, 87-89, 96-97, 108-116, 145-146 TE: 29, 30, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61-67, 87-89, 96-97, 108-116, 145-146 TR: Lab Manual: Activities 8, 9, 10, 11, 12, 13, 18, 19, 20; Probeware Lab Manual: Activities 1, 2, 3, 4, 5 TECH: Teacher Express CD: Chapter 3, 4, 6, 7;	

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GRADE LEVEL EXPECTATIONS	CORRELATION NOTATIONS	✓ if the content of the text material is sufficient to allow students to adequately meet the GLE..
	Student Express CD: Chapter 3, 4, 6, 7; Examview CD: Chapter 3, 4, 6, 7; Virtual Physics Labs: Activities 2, 3, 5, 5, 6, 8, 9; Conceptual Physics DVD: Newton's First Law, Linear Motion, Newton's Second Law, Newton's Third Law	
10. Determine constant velocity and uniform acceleration mathematically and graphically (PS-H-E2)	SE: 33-34, 50, 51, 52, 53, 54, 57, 58, 61-67, 87-89, 96-97 TE: 33-34, 50, 51, 52, 53, 54, 57, 58, 61-67, 87-89, 96-97 TR: Lab Manual: Activities 8, 9, 10, 11, 12, 13, 18, 19, 20; Probeware Lab Manual: Activities 1, 4, 5 TECH: Teacher Express CD: Chapter 3, 4, 6; Student Express CD: Chapter 3, 4, 6; Examview CD: Chapter 3, 4, 6; Virtual Physics Labs: Activities 3, 8; Conceptual Physics DVD: Linear Motion, Newton's Second Law	
11. Plot and interpret displacement-time and velocity-time graphs and explain how these two types of graphs are interrelated (PS-H-E2)	SE: 57, 58, 836 TE: 57, 58, 836 TR: Lab Manual: Activities 12; Probeware Lab Manual: Activities 2 TECH: Teacher Express CD: Chapter 4; Student Express CD: Chapter 4; Examview CD: 4; Virtual Physics Labs: Activities 4	
12. Model scalar and vector quantities (PS-H-E2)	SE: 14, 20-22, 23-27, 69-72, 135-136, 176-177, 837-839 TE: 14, 20-22, 23-27, 69-72, 135-136, 176-177, 837-839 TR: Lab Manual: Activities 3, 4, 5	

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	TECH: Teacher Express CD: Chapter 2, 5, 8, 10; Student Express CD: Chapter 2, 5, 8, 10; Examview CD: Chapter 2, 5, 8, 10; <i>Conceptual Physics</i> DVD: Vectors and Projectiles	
13. Add and resolve vectors graphically and mathematically to determine resultant/equilibrant of concurrent force vectors (PS-H-E3)	SE: 20, 21, 22, 23-27, 69-72, 135-136, 176-177 TE: 20, 21, 22, 23-27, 69-72, 135-136, 176-177 TR: Lab Manual: Activities 3, 4, 5 TECH: Teacher Express CD: Chapter 2, 5, 8, 10; Student Express CD: Chapter 2, 5, 8, 10; Examview CD: Chapter 2, 5, 8, 10; <i>Conceptual Physics</i> DVD: Vectors and Projectiles	
14. Solve for missing variables in kinematic equations relating to actual situations (PS-H-E3)	SE: 29, 30, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61-67, 87-89, 96-97, 108-116, 145-146 TE: 29, 30, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 61-67, 87-89, 96-97, 108-116, 145-146 TR: Lab Manual: Activities 8, 9, 10, 11, 12, 13, 18, 19, 20; Probeware Lab Manual: Activities 1, 2, 3, 4, 5 TECH: Teacher Express CD: Chapter 3, 4, 6, 7; Student Express CD: Chapter 3, 4, 6, 7; Examview CD: Chapter 3, 4, 6, 7; Virtual Physics Labs: Activities 2, 3, 5, 5, 6, 8, 9; <i>Conceptual Physics</i> DVD: Newton's First Law, Linear Motion, Newton's Second Law, Newton's Third Law	

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15. Calculate centripetal force and acceleration in circular motion (PS-H-E3)	SE: 175-180 TE: 175-180 TR: Lab Manual: 35, 41, 42, 44, 45 TECH: Teacher Express CD: Chapter 10; Student Express CD: Chapter 10; Examview CD: Chapter 10; Virtual Physics Labs: Activities 13, 14, 17; Conceptual Physics DVD: Rotation, Satellite Motion	
16. Analyze circular motion to solve problems relating to angular velocity, acceleration, momentum, and torque (PS-H-E3)	SE: 171-187, 189-192, 213-222, 265-267, 271 TE: 171-187, 189-192, 213-222, 265-267, 271 TR: Lab Manual: Activities 34, 35, 36 TECH: Teacher Express CD: Chapter 10, 11, 12, 14; Student Express CD: Chapter 10, 11, 12, 14; Examview CD: Chapter 10, 11, 12, 14; Virtual Physics Labs: Activities 13, 17; Conceptual Physics DVD: Rotation, Center of Gravity, Satellite Motion	
17. Analyze simple harmonic motion (PS-H-E3)	SE:491 TE: 491 TR: Lab Manual: Activities 68, 69; Probeware Lab Manual: Activity 13 TECH: Teacher Express CD: Chapter 25; Student Express CD: Chapter 25; Examview CD: Chapter 25	

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18. Demonstrate the independence of perpendicular components in projectile motion and predict the optimum angles and velocities of projectiles (PS-H-E3)	SE: 73-79, 80-85 TE: 73-79, 80-85 TR: Lab Manual: Activities 16, 17; Probeware Lab Manual: Activity 3 TECH: Teacher Express CD: Chapter 5; Student Express CD: Chapter 5; Examview CD: Chapter 5; Virtual Physics Labs: Activities 7; Conceptual Physics DVD: Vectors and Projectiles	
Energy		
19. Explain quantitatively the conversion between kinetic and potential energy for objects in motion (e.g., roller coaster, pendulum) (PS-H-F1)	SE: 147-150, 151-152, 153-154, 269-270 TE: 147-150, 151-152, 153-154, 269-270 TR: Lab Manual: Activities 28, 29, 32 TECH: Teacher Express CD: Chapter 9, 14; Student Express CD: Chapter 9, 14; Examview CD: Chapter 9, 14; Virtual Physics Labs: Activities 12; Conceptual Physics DVD: Energy	
20. Calculate the mechanical advantage and efficiency of simple machines and explain the loss of efficiency using the dynamics of the machines (PS-H-F1)	SE: 155-160, 476-477 TE: 155-160, 476-477 TR: Lab Manual: Activities 31; Probeware Lab Manual: Activities 8 TECH: Teacher Express CD: Chapter 9; Student Express CD: Chapter 9; Examview CD: Chapter 9; Conceptual Physics DVD: Energy	
21. Explain and calculate the conversion of one form of energy to another (e.g., chemical to thermal, thermal to mechanical, magnetic to electrical) (PS-H-F1)	SE: 151-152, 153-154, 160-162, 409-411, 460-461, 470-471, 474-477, 669-670 TE: 151-152, 153-154, 160-162, 409-411, 460-461, 470-471, 474-477, 669-670	

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	TR: Lab Manual: Activities 28, 29, 32, 65; Probeware Lab Manual: Activities 7 TECH: Teacher Express CD: Chapter 9, 21, 23, 24, 33; Student Express CD: Chapter 9, 21, 23, 24, 33; Examview CD: Chapter 9, 21, 23, 24, 33; Virtual Physics Labs: Activities 12; Conceptual Physics DVD: Energy	
22. Analyze energy transformations using the law of conservation of energy (PS-H-F2)	SE: 153-154, 269-270, 431-433, 451, 470-471 TE: 153-154, 269-270, 431-433, 451, 470-471 TR: Lab Manual: Activities 28, 29, 32, 65; Probeware Lab Manual: Activities 7 TECH: Teacher Express CD: Chapter 9, 15, 22, 23; Student Express CD: Chapter 9, 15, 22, 23; Examview CD: Chapter 9, 15, 22, 23; Virtual Physics Labs: Activities 12; Conceptual Physics DVD: Energy	
23. Apply the law of conservation of momentum to collisions in one and two dimensions, including angular momentum (PS- H-F2)	SE: 130-134, 135-136, 221-222 TE: 130-134, 135-136, 221-222 TR: Lab Manual: Activities 24; Probeware Lab Manual: Activities 6 TECH: Teacher Express CD: Chapter 8, 12; Student Express CD: Chapter 8, 12; Examview CD: Chapter 8, 12; Virtual Physics Labs: Activities 11; Conceptual Physics DVD: Momentum	

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24. Apply the concept of momentum to actual situations with different masses and velocities (PS- H-F2)	SE: 108-131, 132-136 TE: 108-131, 132-136 TR: Lab Manual: Activities 24, 25; Probeware Lab Manual: Activities 6 TECH: Teacher Express CD: Chapter 8; Student Express CD: Chapter 8; Examview CD: Chapter 8; Virtual Physics Labs: Activities 11; Conceptual Physics DVD: Momentum	
Interactions of Energy and Matter		
25. Determine the relationships among amplitude, wavelength, frequency, period, and velocity in different media (PS-H-G1)	SE: 492-493, 494, 495-497, 500-501, 536, 572 TE: 492-493, 494, 495-497, 500-501, 536, 572 TR: Lab Manual: Activities 70, 71 TECH: Teacher Express CD: Chapter 25, 27; Student Express CD: Chapter 25, 27; Examview CD: Chapter 25, 27	
26. Evaluate how different media affect the properties of reflection, refraction, diffraction, polarization, and interference (PS-H-G1)	SE: 439-440, 498-499, 522-523, 539, 542-546, 556-558, 580-595, 603, 623-636 TE: 439-440, 498-499, 522-523, 539, 542-546, 556-558, 580-595, 603, 623-636 TR: Lab Manual: Activities 74, 77, 78, 79, 80, 81, 82, 84, 85, 86, 88; Probeware Lab Manual: Activities 14 TECH: Teacher Express CD: Chapter 22, 25, 27, 28, 29, 30, 31; Student Express CD: Chapter 22, 25, 27, 28, 29, 30, 31; Examview CD: Chapter 22, 25, 27, 28, 29, 30, 31; Virtual Physics Labs: Activities 26, 28; Conceptual Physics DVD: Reflection and Refraction	

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GRADE LEVEL EXPECTATIONS	CORRELATION NOTATIONS	✓ if the content of the text material is sufficient to allow students to adequately meet the GLE..
27. Investigate and construct diagrams to illustrate the laws of reflection and refraction (PS-H-G1)	SE:439-440, 556-558, 580-595, 603-612 TE: 439-440, 556-558, 580-595, 603-612 TR: Lab Manual: Activities 77, 78, 79, 80, 82, 84, 85; Probeware Lab Manual: Activities 14 TECH: Teacher Express CD: Chapter 22, 29; Student Express CD: Chapter 22, 29; Examview CD: Chapter 22, 29; Virtual Physics Labs: Activities 26; Conceptual Physics DVD: Reflection and Refraction	
28. Draw constructive and destructive interference patterns and explain how the principle of superposition applies to wave propagation (PS-H-G1)	SE: 498-499, 628-632 TE: 498-499, 628-632 TR: Lab Manual: Activities 70, 87, 88 TECH: Teacher Express CD: Chapter 25, 31; Student Express CD: Chapter 25, 31; Examview CD: Chapter 25, 31; Virtual Physics Labs: Activities 28	
29. Describe observed electrostatic phenomena, calculate Coulomb's law, and test charge pole, electric field, and magnetic field (PS-H-G2)	SE: 644-650, 652-657, 665-669, 722-724, 726-727 TE: 644-650, 652-657, 665-669, 722-724, 726-727 TR: Lab Manual: Activities 89, 90, 97, 98; Probeware Lab Manual: Activities 15 TECH: Teacher Express CD: Chapter 32, 33, 36; Student Express CD: Chapter 32, 33, 36; Examview CD: Chapter 32, 33, 36; Virtual Physics Labs: Activities 29; Conceptual Physics DVD: Electrostatics	

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30. Construct basic electric circuits and solve problems involving voltage, current, resistance, power, and energy (PS-H-G2)	SE: 670-674, 681-694, 702-712, 726-727, 728-729, 730-731 TE: 670-674, 681-694, 702-712, 726-727, 728-729, 730-731 TR: Lab Manual: Activities 91, 92, 93, 94, 95, 96; Probeware Lab Manual: Activities 15 TECH: Teacher Express CD: Chapter 33, 34, 36; Student Express CD: Chapter 33, 34, 36; Examview CD: Chapter 33, 34, 36; Virtual Physics Labs: Activities 30, 31, 32; Conceptual Physics DVD: Electric Current	
31. Describe the relationship of electricity, magnetism, and inductance as aspects of a single electromagnetic force (PS-H-G2)	SE: 741-752 TE: 741-752 TR: Lab Manual: Activities 99 TECH: Teacher Express CD: Chapter 37; Student Express CD: Chapter 37; Examview CD: Chapter 37; Virtual Physics Labs: Activities 33; Conceptual Physics DVD: Magnetism and Induction	
32. Compare properties of electromagnetic and mechanical waves (PS-H-G3)	SE: 436-437, 492-493, 494-497, 504-506, 536, 572, 753-755 TE: 436-437, 492-493, 494-497, 504-506, 536, 572, 753-755 TR: Lab Manual: Activities 70, 71 TECH: Teacher Express CD: Chapter 22, 25, 27, 27; Student Express CD: Chapter 22, 25, 27, 27; Examview CD: Chapter 22, 25, 27, 27	

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33. Solve problems related to sound and light in different media (PS-H-G3)	SE: 515-526, 534-546, 555-556, 560-563 TE: 515-526, 534-546, 555-556, 560-563 TR: Lab Manual: Activities 72, 73, 74, 76, 77, 78 TECH: Teacher Express CD: Chapter 26, 27, 28; Student Express CD: Chapter 26, 27, 28; Examview CD: Chapter 26, 27, 28; Virtual Physics Labs: Activities 24, 25; Conceptual Physics DVD: Vibrations and Sound I and II, Lightwaves, Light and Color, Reflection and Refraction	
34. Compare the properties of the electromagnetic spectrum as a wave and as a particle (PS-H-G3)	SE: 492-493, 533, 571, 766-771 TE: 492-493, 533, 571, 766-771 TR: Lab Manual: Activities 75, 76 TECH: Teacher Express CD: Chapter 25, 27, 28, 38; Student Express CD: Chapter 25, 27, 28, 38; Examview CD: Chapter 25, 27, 28, 38; Virtual Physics Labs: Activities 34	
35. Analyze the Doppler effect of a moving wave source (PS-H-G3)	SE: 501-503 TE: 501-503 TR: Lab Manual: Activities 72 TECH: Teacher Express CD: Chapter 25; Student Express CD: Chapter 25; Examview CD: Chapter 25	