

Bakersfield City School District
Curriculum & Standards

Holt Science

Suggested Pacing Calendar 2008 - 2009
Grade 8

Revised August 15, 2008

August 2008				
M	T	W	Th	F
4	5	6	7	8
11	12	13	14	15
18	19	20	21	22
25	26	27	28	29

September 2008				
M	T	W	Th	F
H	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30			

<i>Introduction to Physical Science</i>			
	180 Day Instruction	90 Day Instruction	45 Day Instruction
Lab Safety and The Scientific Method			
Standards: 9abcde Pages 8-27			
The Nature of Physical Science	10 days	5 days	2 days
Standards: 9abc Pages: 2-37			
Data in Science	5 days	3 days	1 days
Standards: 9abcdefg Pages: 38-71			
<p>Activities: Making Observations and Testing Ideas (p. 7), Asking a Question (p. 9), Internet Activity: Careers in Physical Science (p. 12), Investigating a Pendulum's Swing (p. 19), Drawing a Safety Map (p. 24), Measuring Liquid Volume (pp. 28-29), Testing a Hypothesis (p. 30), Creating a Scientific Plan (p. 41), Accuracy of Measurement (p. 44), Height vs. Arm Span (p. 52), Internet Activity: Careers in Engineering (p. 54), Slope and Speed (p. 60), Penny Densities (pp. 62-63), Accuracy and Reproducibility of Data.</p>			
<p>Materials Available to Check Out: Slinky.</p>			

September 2008				
M	T	W	Th	F
H	2	3	4	5
8	9	10	11	12
15	16	17	18	19
22	23	24	25	26
29	30			

October 2008				
M	T	W	Th	F
		1	2	3
6	7	8	9	10
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31

<i>The Structure of Matter</i>				
		180 Day Instruction	90 Day Instruction	45 Day Instruction
Properties of Matter		11 days	5 days	3 days
Standards: 5acd, 7c, 8abd, 9bf	Pages: 72-105			
States of Matter		6 days	3 days	2 days
Standards: 3de, 5d, 7c, 9deg	Pages: 106-129			
Elements, Compounds, and Mixtures		10 days	5 days	2 days
Standards: 3b, 5a, 7c, 9ac	Pages: 130-157			
October 17: End of First Quarter				
<p>Activities: Similar Size, Different Mass (p. 77), Finding Accurate Volumes (p. 79), Finding Volume by Displacement (p. 81), finding the Density of Unknown Metals (p. 87), Internet Activity: My New Material (p. 93), Physical or Chemical Change? (p. 94), Classifying Substances (pp. 96-97), Using a Three-Variable Equation (p. 98), A Change of State (p. 109), Changing Volumes (p. 112), Internet Activity: Physical Scientist Biographies (p. 117), Boiling Water Without Heating It (p. 118), Boiling and Temperature (pp. 120-121), Linear and Nonlinear Relationships (p. 122), Classifying by Properties (p. 133), Separating Elements (p. 135), Identifying Compounds (p. 139), Internet Activity: A Physical Science Fairytale (p. 145), Identifying solutes by Solubility (p. 146), Flame Tests (pp. 148-149), Identifying Types of Parameters (p. 150),</p>				
<p>Materials Available to Check Out: Electronic balance, double pan balance, triple-beam balance, iron filings, density cubes, assorted syringes, hot plate, assorted magnets, Microviewer slides: The Elements.</p>				

October 2008				
M	T	W	Th	F
		1	2	3
6	7	8	9	10
13	14	15	16	17
20	21	22	23	24
27	28	29	30	31

November 2008				
M	T	W	Th	F
3	4	5	6	7
10	H	12	13	14
17	18	19	20	21
24	25	26	H	H

<i>The Atom</i>			
	180 Day Instruction	90 Day Instruction	45 Day Instruction
Introduction to Atoms	8 days	4 days	2 days
Standards: 3a, 7b, 9a Pages: 158-189			
The Periodic Table	8 days	4 days	2 days
Standards: 3f, 7abc, 9aeg Pages: 190-219			
<p>Activities: A Model of Exploring the Atom (p. 163), Mystery Box (p. 167), Internet Activity: Atomic Scientist Biography (p. 174), Atomic Bead Models (p. 177), Building Atomic Nuclei (pp. 180-181), Testing a Hypothesis (p. 182), A Tool To Predict Properties (p. 193), Heat Conduction (p. 198), Internet Activity: The Right Element for You (p. 207), Locating Elements on the Table (p. 208), Create a Periodic Table (pp. 210-211), Constructing a Line graph (p. 212),</p>			
<p>Materials Available to Check Out:</p>			

November 2008				
M	T	W	Th	F
3	4	5	6	7
10	H	12	13	14
17	18	19	20	21
24	25	26	H	H

December 2008				
M	T	W	Th	F
1	2	3	4	5
8	9	10	11	12
15	16	17	18	19
H	H	H	H	H
H	H	H		

January 2009				
M	T	W	Th	F
			H	H
5	6	7	8	9
12	13	14	15	16
H	20	21	22	23
26	27	28	29	30

<i>Interactions of Matter</i>			
	180 Day Instruction	90 Day Instruction	45 Day Instruction
Chemical Bonding	10 days	5 days	3 days
Standards: 3abcf, 5a Pages: 220-251			
Chemical Reactions	9 days	4 days	2 days
Standards: 3bf, 5abc, 9c Pages: 252-277			
Chemical Compounds	9 days	4 days	2 days
Standards: 3bc, 5e, 7c, 9a Pages: 278-305			
The Chemistry of Living Things	5 days	2 days	1 days
Standards: 6abc, 3c, 9d Pages: 306-329			
Winter Break: December 22– January 2			
January 9: End of Second Quarter			
<p>Activities: Bonding and Properties (p. 225), A Model Atom (p. 228), Growing Crystals (p. 234), Studying Sugar (p. 238), Internet Activity: Atomic Attraction (p. 240), Covalent Marshmallows (pp. 242-243), Planning an Investigation (p. 244), A Model Chemical Formula (p. 255), Reaction Ready (p. 259), Endothermic and Exothermic Processes (p. 260), Internet Activity: Middle Ages Chemistry (p. 266), Conservation of Mass (p. 267), Putting Elements Together (pp. 268-269), Identifying Types of Parameters (p. 270), A Model of Salt (p. 281), Internet Activity: Physicist Biography (p. 284), Ionic or Covalent? (p. 284), Red to Blue-Acid! (p. 290), Neutralization (p. 293), Cabbage Patch Indicators (pp. 296-297), Planning an Investigation (p. 298), Building an Organic Molecule (p. 309), What's in the Wax? (p. 312), Internet Activity: My New Sandwich (p. 316), Modeling Proteins (p. 316), Enzymes in Action (pp. 320-321), Finding the Slope of a Graph (p. 322),</p>			
<p>Materials Available to Check Out: electronic balance, triple-beam balance, film canisters, ph indicator with scale,</p>			

January 2009				
M	T	W	Th	F
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5	6	7	8	9
12	13	14	15	16
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26	27	28	29	30

February 2009				
M	T	W	Th	F
2	3	4	5	6
H	10	11	12	13
H	17	18	19	20
23	24	25	26	27

March 2009				
M	T	W	Th	F
2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27
30	31			

<i>Motion and Forces</i>				
		180 Day Instruction	90 Day Instruction	45 Day Instruction
Matter in Motion		12 days	6 days	3 days
Standards: 1abcdef, 2abcde, 9ef	Pages: 330-365			
Forces and Motion		11 days	5 days	3 days
Standards: 2abcdefg, 9ef	Pages: 366-401			
Forces in Fluids		9 days	4 days	2 days
Standards: 8abcd, 9abf	Pages: 402-429			
March 13: End of Third Quarter				
<p>Activities: Domino Derby—Measuring Speed (p. 335), Reference Points and Position (p. 337), Changing Average Speed (p. 339), Graphing Acceleration (p. 342), Finding Net Force (p. 346), Identifying Forces (p. 348), Feeling Friction (p. 351), Internet Activity: Biographies of Physical Scientist (p. 353), Detecting Acceleration (pp. 356-357), Constructing and Interpreting Graphs (p. 358), Gravity and Falling (p. 369), Mass and Weight (p. 374), Parachutes and Air Resistance (p. 379), Circling Marbles (p. 382), First—Law Skateboard (p. 385), Internet Activity: Newton’s Rap (p. 387), Testing Newton’s Second Law (p. 388), Exploring Inertia (pp. 392-393), Finding a Missing Quantity (p. 394), Floating and Density Changes (p. 405), Forces on Fluids (p. 410), Finding the Buoyant Force (p. 413), Will It Sink or Float? (p. 416), Ship Shape (p. 417), Fluids, Force, and Floating (pp. 420-421), Finding a Missing Quantity (p. 422),</p>				
Materials Available to Check Out: Dominoes, accelerometer model, triple-beam balance,				

March 2009				
M	T	W	Th	F
2	3	4	5	6
9	10	11	12	13
16	17	18	19	20
23	24	25	26	27
30	31			

April 2009				
M	T	W	Th	F
		1	2	3
H	H	H	H	H
H	14	15	16	17
20	21	22	23	24
27	28	29	30	

May 2009				
M	T	W	Th	F
				1
4	5	6	7	8
11	12	13	14	15
18	19	20	21	22
H	26	27	28	29

<i>Studying the Universe</i>			
	180 Day Instruction	90 Day Instruction	45 Day Instruction
Stars, Galaxies, and the Universe			
Standards: 4abc, 2g, 9e	Pages: 430-467	10 days	5 days
Our Solar System			
Standards: 2bc, 3ad, 4abce, 5c	Pages: 422-443	15 days	8 days
Spring Break: April 6 - 13			
April 20 – May 1: STAR Testing			
<p>Activities: Exploring the Movement of Galaxies in the Universe (p. 435), Demonstrating Parallax (p. 441), Internet Activity: Astronomer Biographies (p. 442), Making a Star Movie (p. 445), Modeling Galaxies (p. 451), The Expanding Universe (p. 455), Star Colors: Red Hot, or Not? (pp. 458-459), Constructing a line Graph (p. 460), Measuring Space (p. 471), Modeling Fusion (p. 476) Distances in the Inner Solar System (p. 484), Internet Activity: Planetary Exploration (p. 489), Distances in the Outer Solar System (p. 490), Modeling Eclipses (p. 495), Modeling Crater Formation (p. 502), Weighing In on Different Planets (pp. 506-507), Finding the Slope of a Graph (p. 508).</p>			
<p>Materials Available to Check Out: Spectroscopes, microviewer slides :Introduction to Space, Our Moon, Probing the Sun’s Secrets, Solar System model,</p>			
Last day of school: May 28			