

TeacherGeek activities and documents are aligned with **2008 Alberta Education: Kindergarten Learner Expectations**. The trans-disciplinary chart below explores the many comprehensive subjects TeacherGeek products cover, helping students + educators reach higher cognitive domains in the process.



Build a Boat	Gears & Pulleys Tinker Set	Genetics' Lab	Grab Lab	Hydroponics	Pump It! Lab	Sail Car	Toy Design Workshop	Wiggle Bot
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Grade Kindergarten									
Early Numeracy									
Develop number sense		X	X	X			X	X	
Use patterns to describe the world/solve problems		X	X			X	X		X
Solve problems with measurements	X	X		X	X	X	X	X	X
Sort/Describe 3D 2D shapes				X					
Citizenship & Identity									
Dimensions of Thinking	X	X	X	X	X	X	X	X	X
Research for Deliberative Inquiry	X	X	X	X	X	X	X	X	X
Environment & Community Awareness									
Curiosity, Interest About Community / Environment (sorting, senses, properties, cause + effect)	X	X		X	X	X	X	X	X
Materials (use, type, recycled)	X	X	X	X	X	X	X	X	X
Familiar Places			X		X				
Personal + Social Responsibility									
Positive Learning Attitude	X	X	X	X	X	X	X	X	X
Independent Learning	X	X	X	X		X	X	X	X
Contributes to Group Activities	X	X	X	X	X	X	X	X	X
Physical Skills + Well-Being									
Locomotor, Non-Locomotor, Manipulative Skills		X	X	X		X	X	X	X
Fine Motor/Perceptual Motor Skills	X	X	X	X	X	X	X	X	X
Creative Expression									
Explore/express ideas, feelings through a variety of forms (art, music, drama, movement...)		X	X						
Experiments with variety of materials to create two and three dimensional forms	X	X	X						
Uses past experiences to develop new ideas	X	X		X	X		X	X	X
Explores familiar materials in new ways	X	X		X	X	X	X	X	X
Responds to appreciates art, movement of cultures by viewing, discussing & creating.		X	X						



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Visit teachergeek.com documents + activities + videos

	Air Racer	Bean Sorter	Bridges + Structures	Build a Boat	Catch the Bug	Crazy Contraptions	Electromagnetic Crane	Electric Racer	Flag Waver	Fluid Power Lab	Gears & Pulleys	Tinker Sat	Genetics Lab	Grab Lab	Basic Hydraulic Arm	Hydraulic Claw	Hydroponics	Judo Bot	Mini Wind Turbine	Mousetrap Vehicle	Projectile Launcher	Pump It! Lab	Rubber Band Racer	Sail Car	Super Spring Scale	Toy Design Workshop	Wiggle Bot	Wind Lift	Wind Pump	Yeast Mobile
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Grade 1																																			
Science Skills																																			
1-1		X	X					X	X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X				
1-2		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X				
Problem Solving with Technology																																			
1-3		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X				
Science Attitudes																																			
1-4		X	X					X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X				
C: Building Things																																			
1-7		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X				
1-8		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X				
D: Senses																																			
1-9										X	X											X	X						X						
E: Plant + Animal Needs																																			
1-11											X	X				X																			
Grade 2																																			
Science Skills																																			
2-1		X	X					X	X		X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X			
2-2		X	X					X	X	X	X	X	X	X	X	X	X																		
Problem Solving with Technology																																			
2-3		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X			
Science Attitudes																																			
2-4		X	X					X	X	X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X			
A: Exploring Liquids																																			
2-6																X						X													
B: Buoyancy + Boats																																			
2-7				X																										X					
C: Magnetism																																			
2-8						X																													
E: Small Animals																																			
2-10												X	X																						
Grade 3																																			
Science Skills																																			
3-1	X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
3-2										X	X											X	X	X						X					
Problem Solving with Technology																																			
3-3			X	X			X			X	X	X	X	X	X	X	X				X	X							X	X					
Science Attitudes																																			
3-4	X		X	X			X			X	X	X	X	X	X	X	X				X	X	X	X	X	X	X	X	X	X	X	X	X		
B: Building with Materials																																			
3-6	X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3-7	X		X	X			X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
C: Testing Materials/Supplies																																			
3-8	X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
E: Animal Life Cycles																																			
3-10											X	X																							
Grade 4																																			
Science Skills																																			
4-1	X		X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4-2	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Problem Solving with Technology																																			
4-3	X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Science Attitudes																																			
4-4	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A: Waste & Our World																																			
4-5		X					X									X		X													X	X			
4-5 (Recycling Innovation)																																			
4-5	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
B: Wheels & Levers																																			
4-6	X						X	X	X		X					X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C: Building Moving Devices																																			
4-7	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4-8	X	X		X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
E: Plant Growth + Changes																																			
4-10																X																			
Grade 5																																			
Science Skills																																			
5-1	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5-2	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Problem Solving with Technology																																			
5-3		X		X	X		X	X	X												X														
Science Attitudes																																			
5-4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
A: Electricity & Magnetism																																			
5-5				X		X																													
B: Mechanisms Using Electricity																																			
5-6		X		X	X		X	X	X												X														
C: Classroom Chemistry																																			
5-7								X								X																			X
E: Wetland Ecosystems																																			



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Science 10

	Air Racer	Bean Sorter	Bridges + Structures	Build a Boat	Catch the Bug	Crazy Contraptions	Direct Drive Wind Turbine	Electromagnetic Crane	Electric Racer	Flag Waver	Fluid Power Lab	Gearred Wind Turbine	Gears & Pulleys	Tinker Set	Genetics Lab	Advanced Hydraulic Arm	Hydraulic Claw	Hydroponics	Judo-Bot	Mini Wind Turbine	Mousetrap Vehicle	Projectile Launcher	Advanced Rubber Band Racer	Sail Car	Sumo-Bot	Super Spring Scale	Super Wiggle Bot	Wind Lift	Wind Pump	Yeast Mobile	
Unit A: Energy + Matter in Chemical Change																															
Combining Elements; Periodic Table																			X												X
Chemical Changes + Equations																		X													X
Unit B: Energy Flow in Technological Systems																															
Analyze Thermodynamic Technologies (mechanical, chemical, solar, nuclear, thermal...)	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Energy in Mechanical Systems	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Kinetic + Potential Energy	X			X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Chemical Energy = Potential Energy																		X												X	
Acceleration, Velocity, Displacement	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Gravitational Energy			X			X					X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Work, Mechanical Advantage			X	X		X	X	X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Energy Conservation Efficiency	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Energy + Environment Protection							X												X											X	
Unit C: Cycling of Matter in Living Systems																															
Plant Cell Systems (phototropism)																			X												
Unit D: Energy Flow in Global Systems																															
Climate + Biomes															X			X													
Global Energy Climate Change							X								X			X												X	

Physics 20 (Grades 10-12)

	Air Racer	Bean Sorter	Bridges + Structures	Build a Boat	Catch the Bug	Crazy Contraptions	Direct Drive Wind Turbine	Electromagnetic Crane	Electric Racer	Flag Waver	Fluid Power Lab	Gearred Wind Turbine	Gears & Pulleys	Tinker Set	Genetics Lab	Advanced Hydraulic Arm	Hydraulic Claw	Hydroponics	Judo-Bot	Mini Wind Turbine	Mousetrap Vehicle	Projectile Launcher	Advanced Rubber Band Racer	Sail Car	Sumo-Bot	Super Spring Scale	Super Wiggle Bot	Wind Lift	Wind Pump	Yeast Mobile
Unit A: Kinematics																														
20-A1.1k Velocity, Acceleration	X			X		X			X					X							X	X	X	X	X	X	X	X	X	X
20-A1.2k Scalars + Vectors	X	X		X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
20-A1.3k Accelerated Motion, Data	X			X		X			X					X							X	X	X	X	X	X	X	X	X	X
20-A1.4k Displacement/Velocity	X			X		X			X					X							X	X	X	X	X	X	X	X	X	X
20-A1.5k 2D Motion, Planes	X		X	X	X	X		X	X	X	X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-A1.1-3sts Sci. Goals, Methods	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-A1.2s Investigate, Record Data	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-A1.3s Analyze Data With Math	X		X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Unit B: Dynamics																														
20-B1.1k Force - Change in Velocity	X			X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.2k Newton's 1st Law of Motion	X			X	X	X		X	X	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.3k Newton's 2nd Law of Motion	X			X	X	X		X	X			X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.4k Newton's 3rd Law of Motion	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.5k Static Kinetic Friction	X			X	X			X					X								X	X	X	X	X	X	X	X	X	X
20-B1.6k Graphed/Algebraic Vectors	X																				X	X	X							
20-B1.7k Linear Motion Problems									X												X	X	X							X
20-B1.1sts Purpose of Technology to Create Solutions for Problems	X	X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.3sts Hypotheses	X	X	X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.1s Questions, Investigations	X		X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.2s Observe Variables, Data	X		X	X	X	X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B1.3s Math/Conceptual Models			X						X			X	X								X	X	X	X	X			X	X	X
20-B2.1k Gravitational Force	X		X	X		X	X	X	X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B2.5k Gravity, Acceleration	X			X	X	X			X				X								X	X	X	X	X		X			X
20-B2.2s Investigate, Record Data	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
20-B2.3s Analyze Data with Math	X		X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Unit C: Circular Motion, Work, Energy																														
20-C1.1k Circular Motion, 2D Motion													X															X		

