	Power	and Energy in the Home - Academic Standards in Math and	Science	
	Science Standards from National science education standards, National Research Council, National Academy Press, 1996		Math Standards from Principles and standards for school mathematics , National Council of Teachers of Mathematics. 2000	
Educational Objective	Grade level	Description	Grade level	Description
Energy is delivered from the distribution network to the various loads throughout the home.	K-4	Content Standard D, Physical Science - Fundamentals of electricity	6-8	Geometry - Use visual tools such as networks to represent and solve problems
	5-8	Content Standard B, Physical Science - Transfer of energy		
	5-8	Content Standard E, Science and Technology - Studying technological products and systems		
	9-12	Content Standard B, Physical Science - Conservation of energy		
Different electrical loads vary greatly in their power demands.	K-4	Content Standard D, Physical Science - Fundamentals of electricity	3-12	Measurement - Understand measurable attributes and the units, systems, and processes of measurement
	5-8	Content Standard B, Physical Science - Transfer of energy		
	9-12	Content Standard B, Physical Science - Conservation of energy		
The relationship between power and energy, terms that are often confused.	9-12	Content Standard E, Science and Technology - Understandings about science and technology	3-5	Algebra - Investigate how a change in one variable relates to a change in a second variable
			6-8	Algebra - Use graphs to analyze the nature of changes in quantities in linear relationships
			9-12	Algebra - Understand relations and functions
Energy is metered and priced over time in units of kilowatt-hours.	9-12	Content Standard E, Science and Technology - Understandings about science and technology	3-5	Algebra - Identify and describe situations with constan or varying rates of change and compare them
			6-8	Algebra - Model and solve contextualized problems using various representations, such as graphs, tables, and equations
			9-12	Algebra - Interpret representations of functions of two variables
Energy (and money) can be conserved by using more energy-efficient loads.	K-4	Content Standard F, Science in Personal and Social Perspectives - Environmental issues	3-5	Data Analysis and Probability - Propose and justify conclusions and predictions that are based on data and design studies to further investigate the conclusions or predictions
	5-8	Content Standard F, Science in Personal and Social Perspectives - Science and technology in society	6-8	Measurement - Solve simple problems involving rates and derived measurements
	9-12	Content Standard B, Physical Science - Conservation of energy	9-12	Algebra - Draw reasonable conclusions about a situatio being modeled
	9-12	Content Standard F, Science in Personal and Social Perspectives - Natural resources, environmental quality		