• Indicates standard is focused on O Indicates standard is covered in a general way

Standar	d 1: Scope of Technology	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
In order to comprehend the scope of technology, students in Grades 6-8 should learn that:									
F	New products and systems can be developed to solve problems or to help do things that could not be done without the help of technology.	•	0	0	0	0	•	•	
G	The development of technology is a human activity and is the result of individual or collective needs and the ability to be creative.	0						0	
Н	Technology is closely linked to creativity, which has resulted in innovation.							0	

Standar	d 2: Core Concepts of Technology	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In order	to recognize the core concepts of technology, students in Grades 6-8 should	learn th	at:					
М	Technological systems include input, processes, output, and at times, feedback.		0	0	0	•	•	0
N	Systems thinking involves considering how every part relates to others.			0	0	0	0	0
0	An open-loop system has no feedback path and requires human intervention, while a closed-loop system uses feedback.					0		
Р	Technological systems can be connected to one another.	0	0	0	0	0	0	0
Q	Malfunctions of any part of a system may affect the function and quality of the system.		0	0	0	0	0	0
R	Requirements are the parameters placed on the development of a product or system.			0	0	0	0	
S	Trade-off is a decision process recognizing the need for careful compromises among competing factors.			0				
Т	Different technologies involve different sets of processes.		0		0			
U	Maintenance is the process of inspecting and servicing a product or system on a regular basis in order for it to continue functioning properly, to extend its life, or to upgrade its quality.							
V	Controls are mechanisms or particular steps that people perform using information about the system that causes systems to change.							

	d 3: The Relationships Among Technologies and the Connections Between ogy and Other Fields	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In order	In order to appreciate the relationships among technologies and other fields of study, students should learn that:							
D	Technological systems often interact with one another.		0	0	0	0	0	0
E	A product, system, or environment developed for one setting may be applied to another setting.	0	0	0	0	0	0	
F	Knowledge gained from other fields of study has a direct effect on the development of technological products and systems.	0			0			

Standar	d 4: The Cultural, Social, Economic, and Political Effects of Technology	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project		
In order	In order to recognize the changes in society caused by the use of technology, students should learn that:									
D	The use of technology affects humans in various ways, including their safety, comfort, choices, and attitudes about technology's development and use.	0		0	0	0	0			
E	Technology, by itself, is neither good nor bad, but decisions about the use of products and systems can result in desirable or undesirable consequences.						0	0		
G	Economic, political, and cultural issues are influenced by the development and use of technology.							0		

Standar	d 6: The Role of Society in the Development and Use of Technology	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
In order	In order to realize the impact of society on technology, students should learn that:								
D	Throughout history, new technologies have resulted from the demands, values, and interests of individuals, businesses, industries, and societies.							0	
E	The use of inventions and innovations has led to changes in society and the creation of new needs and wants.							0	
F	Social and cultural priorities and values are reflected in technological devices.							0	
G	Meeting societal expectations is the driving force behind the acceptance and use of products and systems.							0	

Standar	d 7: The Influence of Technology on History	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
In order	In order to be aware of the history of technology, students should learn that:								
С	Many inventions and innovations have evolved using slow and methodical processes of tests and refinements.							0	
D	The specialization of function has been at the heart of many technological improvements.	0						0	
E	The design and construction of structures for service or convenience have evolved from the development of techniques for measurement, controlling systems, and the understanding of spatial relationships.								
F	In the past, an invention or innovation was not usually developed with the knowledge of science.								

Standar	d 8: The Attributes of Design	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project		
In order	In order to realize the attributes of design, students should learn that:									
E	Design is a creative planning process that leads to useful products and systems.			0	0	0				
F	There is no perfect design.			0	0	0	0	0		
G	Requirements for design are made up of criteria and constraints.						0			

Standar	d 9: Engineering Design	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
In order to comprehend engineering design, students should learn that:									
F	Design involves a set of steps, which can be performed in different sequences and repeated as needed.				0		0		
G	Brainstorming is a group problem-solving design process in which each person in the group presents his or her ideas in an open forum.				0	0	0	0	
Н	Modeling, testing, evaluating, and modifying are used to transform ideas into practical			٠	0	0	0	•	

	d 1o: The Role of Troubleshooting, Research and Development, Invention and on, and Experimentation in Problem Solving	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In order	n order to comprehend other problem-solving approaches, students should learn that:							
F	Troubleshooting is a problem-solving method used to identify the cause of a malfunction in a technological system.		0	0	0	0	0	0
G	Invention is a process of turning ideas and imagination into devices and systems. Innovation is the process of modifying an existing product or system to improve it.		0	0	0	0	0	•
Н	Some technological problems are best solved through experimentation.				0			

Standar	d 11: Apply the Design Process	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
As part	As part of learning how to apply design processes, students should learn that:								
н	Apply a design process to solve problems in and beyond the laboratory- classroom.			٠		•			
I	Specify criteria and constraints for the design.			٠	0	•	0		
J	Make two-dimensional and three-dimensional representations of the designed solution.						0	0	
к	Test and evaluate the design in relation to pre-established requirements, such as criteria and constraints, and refine as needed.			٠	0	•			
L	Make a product or system and document the solution.			•	0	0	•		

Standar	d 12: The Role of Society in the Development and Use of Technology	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project		
As part	As part of learning how to use and maintain technological products and systems, students should learn that:									
н	Use information provided in manuals, protocols, or by experienced people to see and understand how things work.		0	0	0	0	0			
I	Use tools, materials, and machines safely to diagnose, adjust, and repair systems.				0	0	•			
J	Use computers and calculators in various applications.	0	•	•			•			
к	Operate and maintain systems in order to achieve a given purpose.	0				•				

Standar	d 13: Assess the Impact of Products and Systems	Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project			
As part	As part of learning how to assess the impact of products and systems, students should learn that:										
F	Design and use instruments to gather data.	•						•			
G	Use data collected to analyze and interpret trends in order to identify the positive and negative effects of a technology.	0		•	0		0	0			
Н	Identify trends and monitor potential consequences of technological development.							0			
I	Interpret and evaluate the accuracy of the information obtained and determine if it is useful.					0	•	•			

Standard 16: Energy and Power Technologies		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In order to select, use, and understand agricultural and related biotechnologies, students should learn that:								
G	Power is the rate at which energy is converted from one form to another or transferred from one place to another, or the rate at which work is done.				0			
н	Power systems are used to drive and provide propulsion to other technological products and systems.				0			

Standard 17: Information and Communication Technologies		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project
In order to select, use, and understand information and communication technologies, students should learn that:								
н	Information and communication systems allow information to be transferred from human to human, human to machine, and machine to human.	0	0	0	0	0	0	0
к	The use of symbols, measurements, and drawings promotes a clear communication by providing a common language to express ideas.		0	0	0	0	0	

Standard 18: Transportation Technologies		Inquiry Video	Tutorial	Heat	Motion	Sound	Light	Project	
In order to select, use, and understand transportation technologies, students should learn that:									
	G	Transportation vehicles are made up of subsystems, such as structural propulsion, suspension, guidance, control, and support, that must function together for a system to work effectively.				0			