

Common Core State Standards

Standards	Insulating You Insulating Earth	Energy Audit	Energy Resources and Use	Energy Data Jam	Solar Energy	Engineering Project
5th Grade						
CCSS.ELA-LITERACY.RI.5.4	*	*	*	*		
CCSS.ELA-LITERACY.SL.5.1	*		*	*	*	*
6th - 8th Grade						
CCSS.ELA-LITERACY.SL.6-8.1						*
CCSS.ELA-LITERACY.RST.6-8.3	*	*	*		*	
CCSS.ELA-LITERACY.RST.6-8.4	*	*	*	*	*	
CCSS.ELA-LITERACY.RST.6-8.7				*		
CCSS.MATH.CONTENT.6.SP.B.4					*	
CCSS.MATH.CONTENT.6.SP.B.5	*	*		*		

NGSS Performance Expectations

Performance Expectations	Insulating You Insulating Earth	Energy Audit	Energy Resources and Use	Energy Data Jam	Solar Energy	Engineering Project
5th Grade						
5-ESS2-1	*					
5-ESS3-1		*	*	*	*	
3-5-ETS1-1						*
3-5-ETS1-2						*
Middle School						
MS-PS3-3	*					
MS-ESS3-3		*	*		*	
MS-ESS3-4	*	*	*	*		
MS-ESS3-5	*	*	*	*		
MS-ETS1-1						*
MS-ETS1-2						*

NGSS Science and Engineering Practices

Science and Engineering Practices	Insulating You Insulating Earth	Energy Audit	Energy Resources and Use	Energy Data Jam	Solar Energy	Engineering Project
Asking Questions and Defining Problems				*	*	*
Developing and Using Models	*		*	*	*	
Planning and Carrying Out Investigations					*	
Analyzing and Interpreting Data	*			*	*	
Using Mathematics and Computational Thinking		*		*		*
Constructing Explanations and Designing Solutions	*	*	*		*	*
Engaging in Argument from Evidence		*	*	*	*	*
Obtaining, Evaluating, and Communicating Information			*	*	*	*

NGSS Disciplinary Core Ideas

Disciplinary Core Ideas	Insulating You Insulating Earth	Energy Audit	Energy Resources and Use	Energy Data Jam	Solar Energy	Engineering Project
ESS2.A Earth Materials and Systems	*		*			
ESS3.C Human Impacts on Earth Systems	*	*	*	*	*	
ESS3.D Global Climate Change	*	*	*	*	*	
ETS1.A Defining and Delimiting Engineering Problems						*
ETS1.B Developing Possible Solutions						*

NGSS Crosscutting Concepts

Crosscutting Concepts	Insulating You Insulating Earth	Energy Audit	Energy Resources and Use	Energy Data Jam	Solar Energy	Engineering Project
Patterns				*		
Cause and Effect	*	*	*		*	*
Scale, Proportion, and Quantity		*				
Systems and System Models	*		*	*	*	
Energy and Matter					*	
Structure and Function						
Stability and Change	*	*	*			