

CLIMATE CHANGE AND THE WATER CYCLE NEXT GENERATION SCIENCE STANDARDS ACTIVITY CHARTS

Performance Expectations

This chart identifies the Climate Change and the Water Cycle activities that address each of the listed Next Generation Science Standards Performance Expectations.

MIDDLE SCHOOL									
	Climate Data Jam	Evaporation Investigation	Insulating You, Insulating Earth	Rainout Shelters	Ready, Set, Grow!	Streams and Steam	Understanding the Difference	The Water Cycle Game	Weather or Climate? You Decide!
MS-LS2-1				●	●				
MS-LS2-4				●					
MS-ESS2-4		○			○	◐		◐	
MS-ESS3-5	●		●				○		○
HIGH SCHOOL									
HS-LS2-2				◐	◐				
HS-ESS2-4			●				○		○
HS-ESS3-1		○				●		○	
HS-ESS3-5	●								

● = Activity fully addresses Performance Expectation

◐ = Fully addresses Performance Expectation when combined with other activities with this notation

○ = Does not fully address the Performance Expectation but provides background or an extension

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Three Dimensions

This chart identifies the Climate Change and the Water Cycle activities that address each of the listed three dimensions of the Next Generation Science Standards.

NGSS THREE DIMENSIONS									
	Climate Data Jam	Evaporation Investigation	Insulating You, Insulating Earth	Rainout Shelters	Ready, Set, Grow!	Streams and Steam	Understanding the Difference	The Water Cycle Game	Weather or Climate? You Decide!
SCIENCE AND ENGINEERING PRACTICES									
Asking Questions and Defining Problems	MS, HS		MS						
Developing and Using Models	MS, HS		MS, HS		MS, HS			MS	
Planning and Carrying Out Investigations		MS, HS							
Analyzing and Interpreting Data	MS, HS	MS, HS	MS, HS	MS, HS	MS				
Using Mathematics and Computational Thinking	MS								
Constructing Explanations and Designing Solutions	MS, HS	MS, HS		MS, HS	MS	MS, HS			
Engaging in Argument from Evidence				MS					
Obtaining, Evaluating, and Communicating Information	MS, HS			MS			MS		
DISCIPLINARY CORE IDEAS									
ESS2.A Earth Materials and Systems		MS, HS	MS, HS			MS, HS		MS, HS	
ESS2.C The Roles of Water in Earth's Surface Processes		MS						MS, HS	
ESS2.D Weather and Climate	MS, HS						MS		MS
ESS3.A Natural Resources						MS, HS			
ESS3.C Human Impacts on Earth Systems			MS, HS			MS, HS			
ESS3.D Global Climate Change	MS, HS		MS, HS						
LS1.C Organization for Matter and Energy Flow in Organisms				MS					
LS2.A Interdependent Relationships in Ecosystems				MS, HS	MS, HS				
LS2.C Ecosystem Dynamics, Functioning, and Resilience					MS				
CROSSCUTTING CONCEPTS									
Patterns	MS, HS			MS, HS					
Cause and Effect				MS, HS	MS	MS, HS			
Systems and System Models		MS, HS	MS, HS		MS, HS			MS, HS	
Energy and Matter								MS, HS	
Stability and Change			MS, HS		MS				

MS = Middle School

HS = High School