

Activity Matrix

Science Standards

<http://books.nap.edu/html/nses/html/index.html>

K-2

		Unifying Concepts & Processes	Science as Inquiry	Physical Science	Earth & Space Science	Life Science	Science & Technology	Science in Personal & Social Perspective	History & Nature of Science
Intro	GRACE Background	-	-	-	-		-		
	GRACE Map the Facts	-	-	-	-		-		
	GRACE Jigsaw Puzzle	-	-	-	-		-	-	
Activity	Coloring GRACE	-	-		-				
Satellite	Follow the Paths	-			-				
	Satellite Song	-			-		-		
	Shapely Satellites	-			-		-	-	-
Gravity	How Low Can You Go?	-	-		-				
	Look At Me, I Know Gravity	-	-		-				
	May The Force Be With You!	-	-	-	-				
	Popular Pop-Ups	-	-		-		-	-	-
Weather	Climate Clothing	-	-					-	
	Water Cycle	-				-		-	
	Weather Watch	-			-	-		-	
	What's the Degree	-	-				-		
Oceans	Density Matters	-	-		-				
	Icy Monsters	-	-		-				
	Windy Wonders	-	-			-		-	

Activity Matrix

Science Standards http://books.nap.edu/html/nses/html/index.html Grades 3-5		Unifying Concepts & Processes	Science as Inquiry	Physical Science	Earth & Space Science	Life Science	Science & Technology	Science in Personal & Social Perspective	History & Nature of Science
		Intro	GRACE Background	-	-	-	-		-
GRACE Bingo	-	-	-	-	-	-	-	-	
GRACE Map the Facts	-	-	-	-	-		-		
GRACE Jigsaw Puzzle	-	-	-	-	-		-	-	
GRACE in Shapes	-	-	-	-	-		-	-	
Activity	Coloring GRACE	-	-		-				
Find the Word – Gravity	-	-	-	-				-	
GRACE in Shapes	-	-	-	-					
GRACE Satellite Words	-	-	-	-					
GRACE Scramble	-	-	-	-			-		
GRACE Word Search	-	-	-	-			-		
MAZE	-	-						-	
The Dot Game	-	-						-	
Unscramble	-	-	-	-				-	
Satellite	Cyberspace GRACE	-	-		-		-		
GRACE Graphers				-					
Marbles in Space	-		-	-					
Blast Off	-	-	-	-			-		
Satellite Write	-								
So Many Satellites	-						-	-	-



SPACE GRANT CONSORTIUM
<http://www.tsgc.utexas.edu/>

GRACE
Educational Standards

Activity Matrix

Gravity	Attraction of Objects of Different Masses...		-	-	-				
	Free Fall	-	-	-	-				
	Gravity on Earth		-	-	-				
	What's Your Weight	-			-			-	
Weather	Blinded by Water Vapor	-	-	-					
	Rain in the Classroom	-	-	-	-				
	Water Vapor		-	-					
	Writing Weather	-	-						
Oceans	Important Ocean Currents	-	-			-			
	Ocean Bingo				-				
	Ocean Facts		-						
	Water All Around Us		-						

Activity Matrix

Science Standards

<http://books.nap.edu/html/nses/html/index.html>

Grades 6-8

Science Standards http://books.nap.edu/html/nses/html/index.html Grades 6-8		Unifying Concepts & Processes	Science as Inquiry	Physical Science	Earth & Space Science	Life Science	Science & Technology	Science in Personal & Social Perspectives
Intro	GRACE Background	-	-	-	-		-	
	GRACE Bingo	-	-	-	-	-	-	-
	GRACE Map the Facts	-	-	-	-		-	
	GRACE Jigsaw Puzzle	-	-	-	-		-	-
	GRACE in Shapes	-	-	-	-		-	-
	Mystery Person	-	-	-	-	-	-	-
Activity	Find the Word - Gravity	-	-	-	-			
	GRACE in Space	-	-	-	-			-
	GRACE Satellite Words	-	-	-	-			
	GRACE Scramble	-	-	-	-		-	
	GRACE Word Search	-	-	-	-		-	
	The Dot Game	-	-					-
	Unscramble	-	-	-	-			-
Satellite	Center of Mass	-	-				-	
	Decoding GRACE		-				-	
	GRACE By the Numbers			-				
	I Have...Who Has?	-						
	Modeling GRACE	-						
Gravity	Earth's Gravity Field	-	-	-			-	
	Free Falling	-	-	-				
	Gravity Connection		-	-	-			
	Speed of GRACE	-		-				

Activity Matrix

Weather	A Scale Model of Earth's Atmosphere	-	-		-			-
	Make an Aquifer	-	-	-	-			
	Modeling Watershed	-	-	-	-		-	
	Scaling Your Watershed	-	-		-			
Oceans	As the Waters Warm		-		-			
	Currents	-	-	-	-			
	Sea Floor Mapping	-			-			
	Hometown A Coastal City?	-	-	-	-			

Activity Matrix

Science Standards

<http://books.nap.edu/html/nses/html/index.html>

Grades 9-12

Science Standards Grades 9-12		Unifying Concepts & Processes	Science as Inquiry	Physical Science	Earth & Space Science	Life Science	Science & Technology	Science in Personal & Social Perspective
Intro	GRACE Background	-	-	-	-		-	
	GRACE Map the Facts	-	-	-	-		-	
	GRACE Jigsaw Puzzle	-	-	-	-		-	-
	GRACE in Shapes	-	-	-	-		-	-
	Mystery Person	-	-	-	-	-	-	-
Activity	Angle of Launch	-	-					
	Conics of Orbital Paths	-		-				
	Elliptically Speaking			-	-			
	What if Kepler Had a Graphing Calculator?	-		-	-			
Satellite	Finding Your Center of Mass	-	-	-	-			
	Fun With Gravity	-	-	-	-			
	Grabbing Gravity	-	-	-				
	Gravity and the Human Body			-	-	-		
	Simulation of Remote Sensing	-	-	-	-			
Gravity	Climate Travel Agent		-	-	-		-	
	Fluid Motion		-	-	-			
Weather	Ocean Currents	-	-	-				
	Rising Oceans	-		-				

Activity Matrix

Mathematics Standards

<http://standards.nctm.org/>

Mathematics Standards		Problem Solving	Measurement	Number & Number Relationships	Computation and Estimation	Geometry
Intro	GRACE Map the Facts	—	—			
	GRACE Jigsaw Puzzle	—	—			
	GRACE in Shapes	—	—			
Satellite	GRACE Graphers		—	—		
	Marbles in Space		—			—
	Blast Off					—
	Satellite Subtraction	—		—	—	
	Decoding GRACE			—	—	
	GRACE by the Numbers			—	—	
	I Have...Who Has?	—		—	—	—
	Modeling GRACE	—	—	—	—	—
	Conics of Orbital Paths	—	—			—
Gravity	How Low Can You Go?		—			
	May the Force Be With You			—		
	What's Your Weight?	—				
	Earth's Gravity Field	—	—			
	A Gravity Connection	—		—		
	Calculating the Speed of the GRACE Satellites	—	—		—	—
	Fun With Gravity and Center of Mass		—		—	
Weather	What's the Degree?	—	—		—	
	Water Vapor/Weather			—	—	
	A Scale Model of Earth's Atmosphere		—		—	
	GRACE Mission – Scaling Your Watershed		—		—	

Activity Matrix

Oceans	Icy Monsters					
	Currents					
	GRACE Mission – Sea Floor Mapping					
	Would Your Hometown be a Coastal City?					
	Ocean Currents					

<h3>Social Studies Standards</h3> http://www.ncss.org/standards/toc.html		Culture	Time, Continuity, and Change	People, Places, and Environment	Global Connections
Intro	Mystery Person				
Oceans	Water All Around Us				

<h3>Geography Standards</h3> http://www.ncge.org/publications/tutorial/standards/		The world in spatial terms	Places and Regions	Physical Systems	Human Systems	Environment and Society	Uses of Geography
Intro	GRACE Bingo						
	GRACE Map the Facts						

Activity Matrix

Music Standards http://www.menc.org/publication/books/standards.htm		Dance	Music	Theatre	Visual Arts
Satellite	Satellite Song				

English Language Arts Standards http://www.ncte.org/standards/		Reading for Perspective	Reading for Understanding	Evaluation Strategies	Communication Skills	Communication Strategies	Applying Knowledge
Satellite	Shapely Satellites						
	Satellite Write						
	So Many Satellites						
Gravity	How Low Can You Go?						
	Popular Pop-Ups						
	Gravity and the Human Body						
Weather	Water Cycle						
	Weather/Language Arts Learning Center						
Oceans	Density Matters						
	Important Ocean Currents						
	Adjectives Using Ocean Facts						