

Washington Township School District

STEM/Makerspace Curriculum

Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/Shadow Clock
NJ Learning Standard(s):	<ul style="list-style-type: none">• 1-ESS1-1• K-2-ETS1-1• K-2-ETS1-2		
Objective:	Student will design a shadow clock.		
STEM/ Unit Activities	Plan and design a shadow clock to record the movement of the sun and shadows through the day.		
Suggested Assessments:	<ul style="list-style-type: none">• Exit Ticket• Journal• Project Rubric• Unit Test• Response sheet• Self-assessment		
Supplies Needed:	Paper plates, drawing tools, rocks		
Resources to Support Unit:	Mystery Science Unit, books about the sun and shadows, websites about the sun and shadows, Brain Pop Jr., https://sunearthday.nasa.gov/2005/images/Sun_Dial_pdf.pdf		

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STEM/Makerspace Curriculum

Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/The Moon
NJ Learning Standard(s):	<ul style="list-style-type: none"> • 1-ESS1-1 • 1-ESS1-2 		
Objective:	Student will make the shapes of the moon.		
STEM/ Unit Activities	Plan and make the shapes the moon changes into throughout a month.		
Suggested Assessments:	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test • Response sheet • Self-assessment 		
Supplies Needed:	Various supplies		
Resources to Support Unit:	Mystery Science Unit, books about the moon, websites about the moon, Brain Pop Jr.		

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Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/Earth and Sun
NJ Learning Standard(s):	<ul style="list-style-type: none"> • 1ESS1-1 • K-2-ETS1-1 • K-2-ETS1-2 		
Objective:	Student will make a model of the Earth and Sun.		
STEM/ Unit Activities	Students will plan and design a model of the Earth and Sun.		
Suggested Assessments:	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test • Response sheet • Self-assessment 		
Supplies Needed:	Playdough, unsharpened pencils, skewers		
Resources to Support Unit:	Mystery Science Unit, books about the Earth and Sun, websites about the Earth and Sun, Brain Pop Jr.		

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STEM/Makerspace Curriculum

Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/Day and Night Sky
NJ Learning Standard(s):	<ul style="list-style-type: none"> • 1-ESS1-1 • 1-ESS1-2 		
Objective:	Student will make a piece of art that shows a sunrise or a sunset.		
STEM/ Unit Activities	Plan and make a piece of art that shows a sunrise or a sunset.		
Suggested Assessments:	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test • Response sheet • Self-assessment 		
Supplies Needed:	Paper, drawing tools, various other supplies of choice		
Resources to Support Unit:	Mystery Science Unit, books about the sun rise and set, Art books showing sunrise and set, websites showing sunrise and sunset.		

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Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/Day and Night Sky
NJ Learning Standard(s):	<ul style="list-style-type: none"> • 1-ESS1-1 • 1-ESS1-2 		
Objective:	Student will make a creative model of the day and night sky.		
STEM/ Unit Activities	Plan and make a creative model of the day and night sky that shows things you see in the sky during that time of day.		
Suggested Assessments:	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test • Response sheet • Self-assessment 		
Supplies Needed:	Drawing tools, various supplies to create a night and day sky		
Resources to Support Unit:	Mystery Science Unit, books about the sky, websites about the sky		

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Grade:	1	Mystery Science Unit/Project Title:	Spinning Sky/Attributes of Stars
NJ Learning Standard(s):	<ul style="list-style-type: none"> • 1-ESS1-1 • 1-ESS1-2 		
Objective:	Student will make a model that shows stars.		
STEM/ Unit Activities	Plan and make a model that shows stars have different sizes and brightness.		
Suggested Assessments:	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test • Response sheet • Self-assessment 		
Supplies Needed:	Drawing tools, various supplies to create a model of stars		
Resources to Support Unit:	Mystery Science Unit, books about stars, websites about stars, videos about stars, Brain Pop Jr.		