

Washington Township School District

STEM/Makerspace Curriculum

Grade:	3	Mystery Science Unit/Project Title:	Weather and Climate/Stormy Skies
NJ Learning Standard(s):	Earth and Space <ul style="list-style-type: none"> • Mystery 1: 3-ESS2-1 • Mystery 2: 3-ESS2-1 • Mystery 3: 3-ESS2-2 • Mystery 4: TBD 		
Objective:	<ul style="list-style-type: none"> • SWBAT compare and contrast climate and weather • SWBAT describe different kinds of weather • SWBAT describe how wind, rain, and temperature are measured • SWBAT describe weather patterns, both day-to-day and season-to-season • SWBAT explain how to stay safe in severe weather 		
STEM/ Unit Activities	Mystery 1: <ul style="list-style-type: none"> • Gas Trap (mystery) or Make a cloud • Water Cycle in a bag Mystery 2: <ul style="list-style-type: none"> • Storm Spotter’s Guide (mystery) Mystery 3: <ul style="list-style-type: none"> • Climate Decoder (mystery) • PowerPoint or Sway on severe weather 		

	<p>Suggested STEM:</p> <ul style="list-style-type: none"> • Building Flood Barriers • Build an Earthquake Resistant Building - TPT • Make a Wind Vane- • Ideportal – Extreme Weather, Are you prepared? • Ideportal – Meteorologists to your stations!
<p>Suggested Assessments:</p>	<ul style="list-style-type: none"> • Exit Ticket • Journal • Project Rubric • Unit Test
<p>Supplies Needed:</p>	<p>Mystery1: Gas Trap</p> <ul style="list-style-type: none"> • Handout (mystery) • Clear cup • Lid • Scissors • Paper towels <p>Make a Cloud</p> <ul style="list-style-type: none"> • Jar with lid • ~ 1/3 cup hot water • Ice • Hairspray (aerosol can) <p>Water Cycle in a bag</p> <ul style="list-style-type: none"> • Sandwich bags (zip seal) • Blue food coloring • Permanent marker • Tape <p>Mystery 2: Storm Spotter’s Guide</p> <ul style="list-style-type: none"> • Template (mystery) • Scissors

	<p>Mystery 3: Climate Decoder</p> <ul style="list-style-type: none"> • Red, orange, yellow, blue, purple, brown colored pencils • Scissors • Handout (mystery) <p>Suggested STEM – Flood Barriers</p> <ul style="list-style-type: none"> • Items to test for absorbency (cotton balls, sponges) • Styrofoam cups • Dishpan or aluminum pan • Stopwatch • Craft sticks • Straws • Rubber bands • Masking tape • Paper clips • Sand and playdoh optional
<p>Resources to Support Unit:</p>	<ul style="list-style-type: none"> • Mentor Text – <u>The Cloud Book</u> by Tomie de Paola <u>Cloud Dance</u> • Magic School Bus – Water Cycle (YouTube) • BrainPop Jr. – Water Cycle • NASA’s Climate Kids (online games) – Cloud Picture Scramble, Wild Weather Adventure, Whirlwind Disaster www.climatekids.nasa.gov • Readworks: Watching the Weather, The Whys of Weather - Clouds, Safety During Storms