

Project ReCharge Curriculum Map

Standards covered by NGSS, Common Core Math and 21st Century Competencies

Sustainability Introduction	Energy and Electricity	Resources and Energy	Thermal Systems (Secondary)
<p>1. Three Spheres Sustainability</p> <ul style="list-style-type: none"> ● HS-ESS3-3 ● MS-ESS3-3 ● 5-ESS3-1 ● C-3, KC-3, RW-2, T-2, SC-1 	<p>1. Simple Circuits</p> <ul style="list-style-type: none"> ● 4-PS3-2 ● 4-PS3-4 ● C-3, KC-2, RW-1, SC-1 ● Creating: Anchor 2 <p>2. Series & Parallel Circuits</p> <ul style="list-style-type: none"> ● 4-PS3-2 ● C-2, KC-3, RW-1, SR-2, SC-1 ● Creating: Anchor 1 ● Responding: Anchor 9 <p>3. Conductivity</p> <ul style="list-style-type: none"> ● 5-PS1-3 ● C-1, KC-1, RW-1 ● W.5.8 <p>4. Energy Bike</p> <ul style="list-style-type: none"> ● HS-PS3-3 ● MS-PS3-5 ● C-1, KC-2, RW-2, T-3, SC-2 ● HS: MP.4 	<p>1. Electrical Generation</p> <ul style="list-style-type: none"> ● HS-PS2-5 ● MS-PS2-3 ● MS-PS2-5 ● C-2, KC-3, RW-2, T-2, SC-2 <p>2. Climate Scene Investigation</p> <ul style="list-style-type: none"> ● MS-ESS3-5 <p>3. Wind Energy Middle School</p> <ul style="list-style-type: none"> ● MS-ESS3-3 ● MS-ETS1-3 ● C-3, KC-3, RW-3, T-2, SR-2, SC-2 ● MS: MP.2 <p>4. Wind Energy High School</p> <ul style="list-style-type: none"> ● HS-PS3-3 ● HS-ETS1-3 ● C-3, KC-3, RW-3, T-2, SR-2, SC-2 <p>5. Solar Energy</p> <ul style="list-style-type: none"> ● HS-PS3-3 ● MS-ESS3-3 ● C-1, KC-2, RW-2, T-3, SC-1 ● HS: MP.2 	<p>1. Building Envelope</p> <ul style="list-style-type: none"> ● HS-PS3-4 ● MS-PS3-3 ● C-1, KC-2, RW-1, SC-2 ● HS: MP.4 ● MS: RST.6-8.3 <p>2. Passive Cooling</p> <ul style="list-style-type: none"> ● HS-ESS3-4 ● HS-ETS1-3 ● MS-PS3-3 ● MS-ETS1-2 ● C-3, KC-3, RW-3, SC-2 ● HS: MP.2, MP.4 ● MS: RST.6-8.3 <p>3. Passive Heating</p> <ul style="list-style-type: none"> ● HS-ESS3-3 ● HS-ETS1-3 ● MS-PS3-3 ● MS-ETS1-3 ● C-3, RW-3, KC-3, SC-2 ● HS: MP.2, MP.4 ● MS: RST.6-8.3
Thermal Systems (Elementary)	Electrical Systems	Sustainability Detectives	Sustainability Projects
<p>1. Properties of Insulation</p> <ul style="list-style-type: none"> ● 5-PS1-3 ● 3-5-ETS1-2 ● C-3, KC-3, RW-1, T-2, SC-2 ● W.5.1, W.5.8, W.5.9, RI.5.1, RI.5.1, RI.5.9, MP.2, MP.4, MP.5, 3-5. OA <p>2. Passive Cooling</p> <ul style="list-style-type: none"> ● 5-ESS3-1 ● 5-PS1-3 ● 3-5-ETS1-2 ● C-3, KC-3, RW-3, SC-2 ● W.5.8, W.5.9, RI.5.1, RI.5.1, RI.5.7, RI.5.9, MP.2, MP.4, MP.5, 3-5. OA <p>3. Passive Heating</p> <ul style="list-style-type: none"> ● 5-ESS3-1 ● 5-PS1-3 ● 3-5-ETS1-2 ● C-3, KC-3, RW-3, SC-2 ● W.5.8, W.5.9, RI.5.1, RI.5.1, RI.5.7, RI.5.9, MP.2, MP.4, MP.5, 3-5. OA 	<p>1. Lighting</p> <ul style="list-style-type: none"> ● HS-ESS3-4 ● HS-ETS1-3 ● MS-ESS3-3 ● MS-ETS1-3 ● 5-ESS3-1 ● 3-5-ETS1-2 ● C-1, KC-2, RW-2, SC-2, TL-1 <p>2. Appliances</p> <ul style="list-style-type: none"> ● HS-ESS3-4 ● HS-ETS1-3 ● MS-ESS3-3 ● MS-ETS1-3 ● 5-ESS3-1 ● 3-5-ETS1-2 ● C-1, KC-1, RW-2, SC-2, TL-2 	<p>1. Home Energy</p> <ul style="list-style-type: none"> ● MS-ESS3-3 ● C-1, KC-3, RW-1, TL-2 <p>2. Outliers</p> <ul style="list-style-type: none"> ● 8.SPA.1 <p>3. Energy Trends</p> <ul style="list-style-type: none"> ● MS-ESS3-3 ● C-4, KC-3, RW-2 <p>4. Energy Auditors</p> <ul style="list-style-type: none"> ● HS-ESS3-4 ● HS-ETS1-3 ● MS-ESS3-3 ● MS-ETS1-4 ● C-1-3, KC-1-3, RW-1-2, T-1-3, SR-1-3 	<p>1. Sustainability Projects</p> <ul style="list-style-type: none"> ● HS-ESS3-4 ● HS-ETS1-3 ● MS-ESS3-3 ● MS-ETS1-1 ● 5-ESS3-1 ● 3-5-ETS1-2 ● KC-4, RW-3, TL-3, SR-3, SC-3 <hr/> <p style="text-align: center;">KEY</p> <p>Green NGSS Standards Blue - 21st Century Competencies Red - Common Core Standards Purple - National Art Standards</p>