

Production line based on the production plan, focusing on how production waste can be reduced or eliminated.

	<p>Students plan the lifecycle of the new product through manufacture, sale, use, and disposal. Consider products such as bird feeders, plant starting containers, puzzles, home aides, or organizational products.</p>
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Essential Question(s)

What knowledge and skills are necessary to evaluate the long-term effects of personal practices on the Career Technical Core Standards

www.careertech.org/career-ready-practices

<p>6. Demonstrate creativity and innovation 8. Utilize critical thinking to make sense of problems and persevere in solving them 9. Model integrity, ethical leadership, and effective management and financial decision-making skills 11. Use technology to enhance productivity 12. Work productively in teams while using cultural global competence</p> <p>International Technology and Engineering Education Association Standards for Technological Literacy www.iteea.org/39197.aspx</p>	<p><u>Decision Making</u></p> <p>16. Students will develop an understanding of and be able to select and use energy and power technologies. 19. Students will develop an understanding of and be able to select and use manufacturing technologies. 20. Students will develop an understanding of and be able to select and use construction technologies.</p>
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Middle-level CTE
Learning Experience Template
March 2019

NYS Standards

New York State Career Development

How Plastic Recycling Actually Works
<https://www.youtube.com/watch?v=zO3jFKiqmHo>

What is Sustainability? | Mocomi Kids
<https://www.youtube.com/watch?v=gTamnlXbgqc>

Reduce, Reuse, and Recycle Tips for Kids
<https://www.reusethisbag.com/articles/reduce-reuse-and-recycle-tips-for-kids/>

Plastic Recycling Facts and Figures
<https://www.thebalancesmb.com/plastic-recycling-facts-and-figures-2877886>

Do the Benefits of Recycling Outweigh the Costs?
<https://www.thoughtco.com/benefits-of-recycling-outweigh-the-costs-1204141>

Why Is Recycling So Important?
<https://www.earthsfriends.com/why-recycling-important/>

Say No to Mindless Waste...
<http://www.theworldcounts.com/stories/Recycle-Facts-for-Kids>

Materials and Tools (Day 6 - 8)
Scroll saw, drill, hand miter saw. 3D printer, CNC router, laser cutter, Cardboard, Fabric (for turf), Marbles, Plastic bottles, Plastic containers, Paper towel tubes, Glue, Tape

INSTRUCTION

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Lead a class discussion about ~~the~~ ~~004~~ ~~0~~ ~~4.904~~ ~~06.683~~ ~~as~~ ~~TT~~ ~~atad~~ ~~Mt~~ ~~ti~~ ~~t~~

	<p>prototype to golfers from the local Golf Association. Assess students construction and mini-golf hole presentations.</p> <p>Day 10 (Closure) Teacher leads students in the evaluation of their projects based on design criteria (ex: function, form, sustainability) and record possible improvements they could make to innovate their design in the future.</p> <p>Teacher leads a class discussion where students explain their vision for how the creation of their hole will impact the community.</p>	<p>experience to the PGA and local community. Students participate in a class Mini-Golf Tournament, Students provide feedback to their classmates about possible product improvements.</p> <p>Day 10 Students evaluate their project based on design criteria (ex: function, form, sustainability) and record possible improvements they could make to innovate their design in the future.</p> <p>Students explain their vision for how the creation of their hole will impact the community.</p>	<p>40min 25min</p> <p>15min</p>
<p>Differentiation</p>	<p>Students will be grouped by their abilities and interests. Teacher will provide scaffolded support where needed. Students who have physical disabilities will be accommodated for. Students who are meeting all of the expectations will be challenged to go above and beyond.</p>		
<p>Closure</p>	<p>Students evaluate their project based on design criteria (ex: function, form, sustainability) and record possible improvements they could make to innovate their design</p>		

Performance Measure	Exemplary	Proficient	Developing	Beginning
Allocates Resources to Meet Needs	Consistently plans in advance how much stock can and should be used to complete a project promptly (e.g., portioning meals, making a budget, having correct quantity and type of materials onsite).	Correctly figures how much stock can and should be used to complete a project promptly (e.g., portioning meals, making a budget, having correct quantity and type of materials onsite).	Often guesses how much stock should be used to complete a project (e.g., portioning meals, making a budget, having correct quantity and type of materials onsite).	Does not understand how much stock can and should be used to complete a project (e.g., portioning meals, making a budget, having correct quantity and type of materials onsite).