Middle-level CTE
Learning Experience Template
$March\ 2019(n)-9.1\ (i)-\beta r \ b duction\ line\ based\ on\ the\ production\ plan,\ focusing\ on\ how\ production\ waste\ can\ be\ reduced\ or\ eliminated.$

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.

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-practice

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- 6. Demonstrate creativity and in Tawaetion Practices
- 8. Utilize critical thinking to make sense of problems and learner critical thinking to make sense of problems and learner critical thinking to make sense of problems and learner critical thinking to make sense of problems and learner critical thinking to make sense of problems and learner critical thinking to make sense of problems and learner critical thinking to make sense of the contract of
- 9. Model integrity, ethical leadership and reprincipal and technical skills
- 11. Use technology to enhance productivity ider environmental Piy.9 (c)-7 0 Td()Tj-0.000 Tc 0 Tw 3.6523.217 0 Tnr
- 12. Work productively in teams while using cultural global competence

International Technology and Engineering Education Association Standards for Technological Literacy

www.iteea.org/39197.aspx

The Designed World

- 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.

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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)

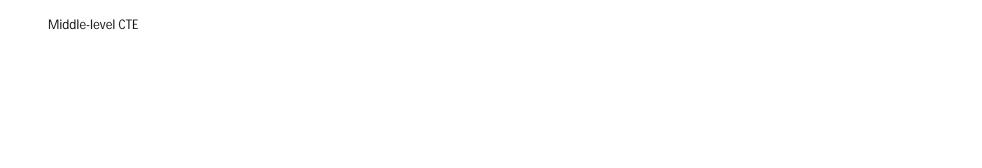
Scroll saw, drill, hand miter saw. 3D printer, CNC router, laser cutter, Cardboard, Fabric (for turf), Marbles, Plastic bottles,

Plastic containers, Paper towel tubes, Glue, Tape

INSTRUCTION

Middle-level CTE Learning Experience Template March 2019

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	prototype to golfers from the local Golf Association. Assess students construction and mini-golf hole presentations.	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.			
	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.	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.	40min 25min		
	Teacher leads a class discussion where students explain their vision for how the creation of their hole will impact the community.	Students explain their vision for how the creation of their hole will impact the community.	15min		
Differentiation	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.				
Closure	Students evaluate their project based on design criteria (ex: function, form, sustainability) and record possible improvements				

Students evaluate their project based on design criteria (ex: function, form, sustainability) and record possible improvements they could make to innovate their design

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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).