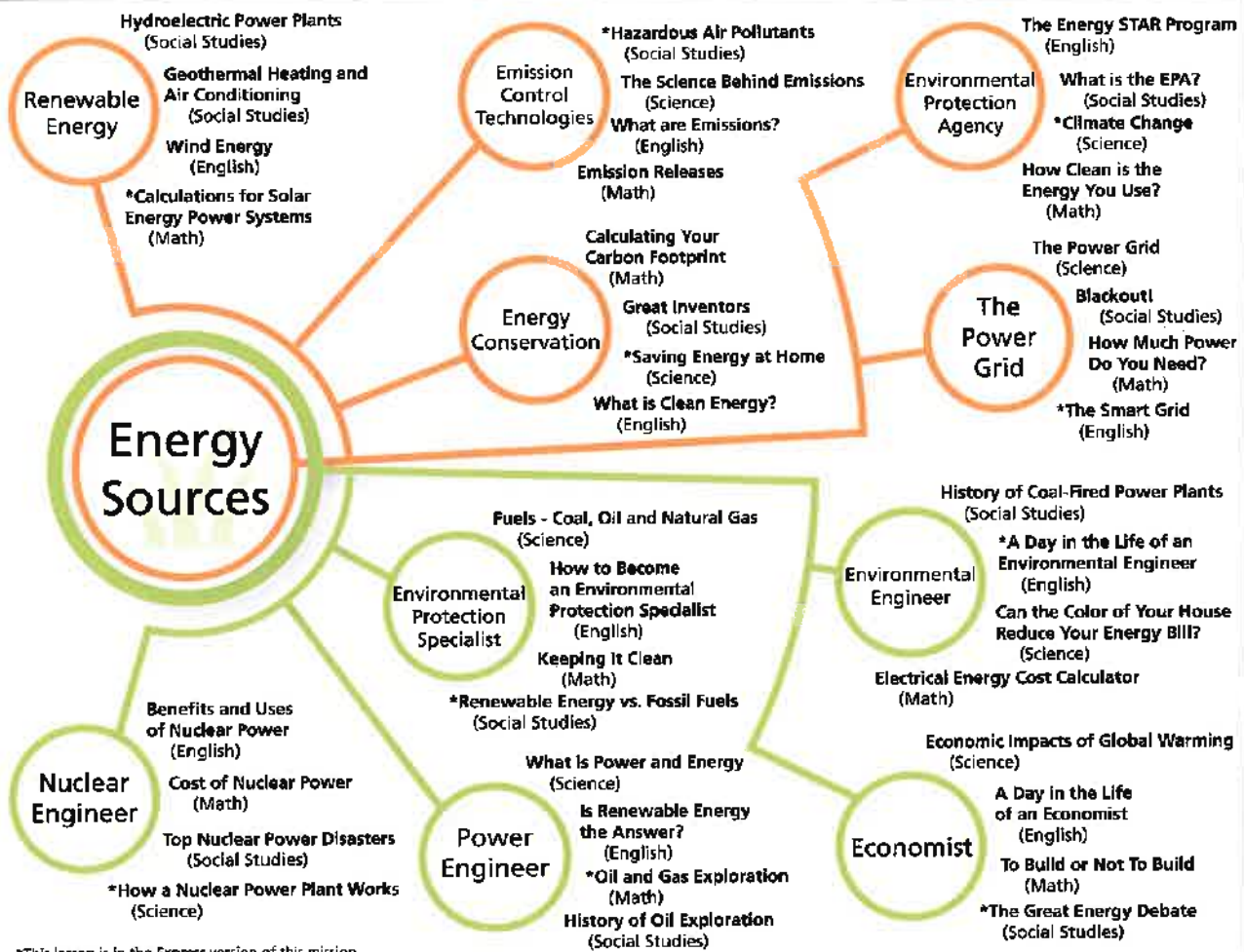
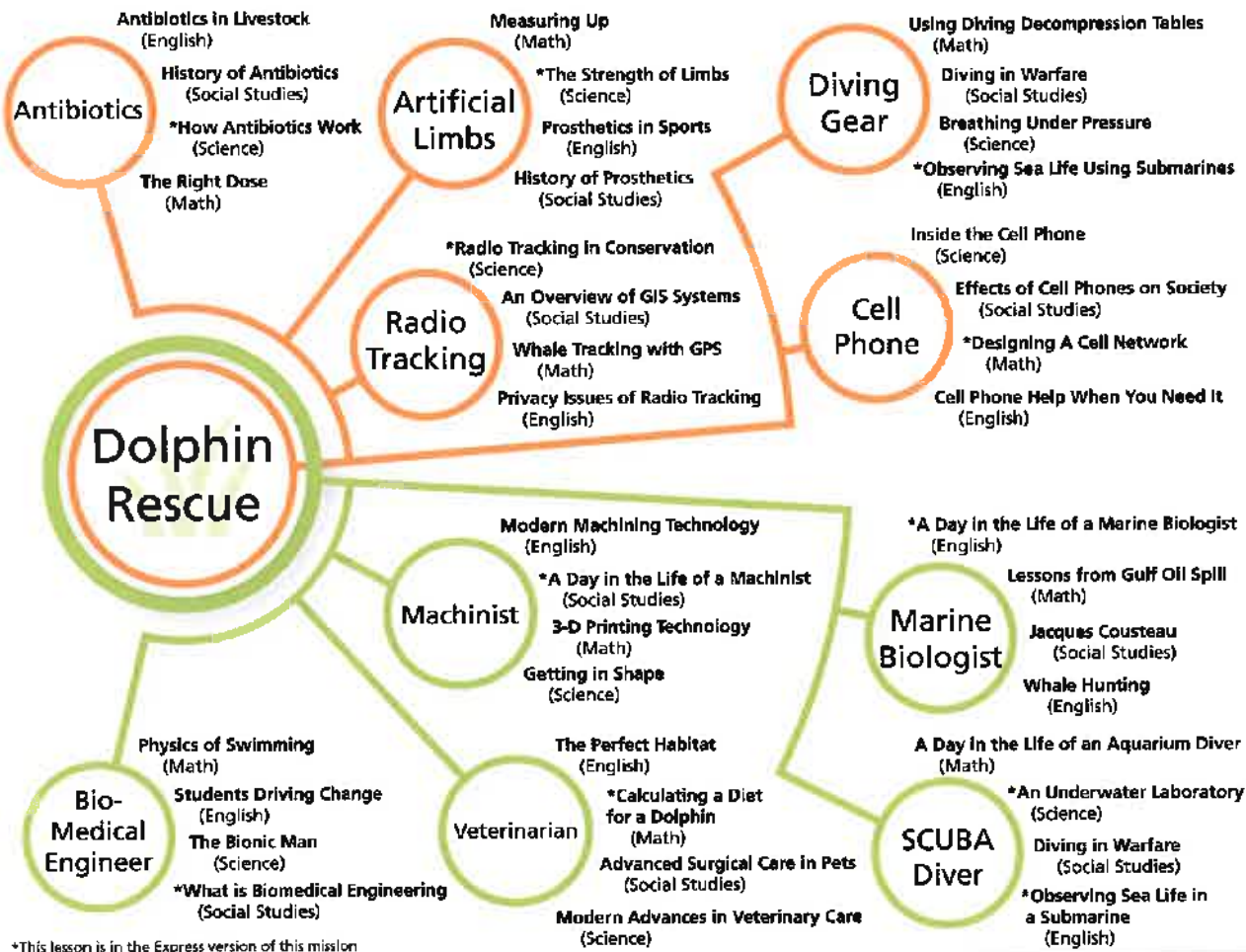
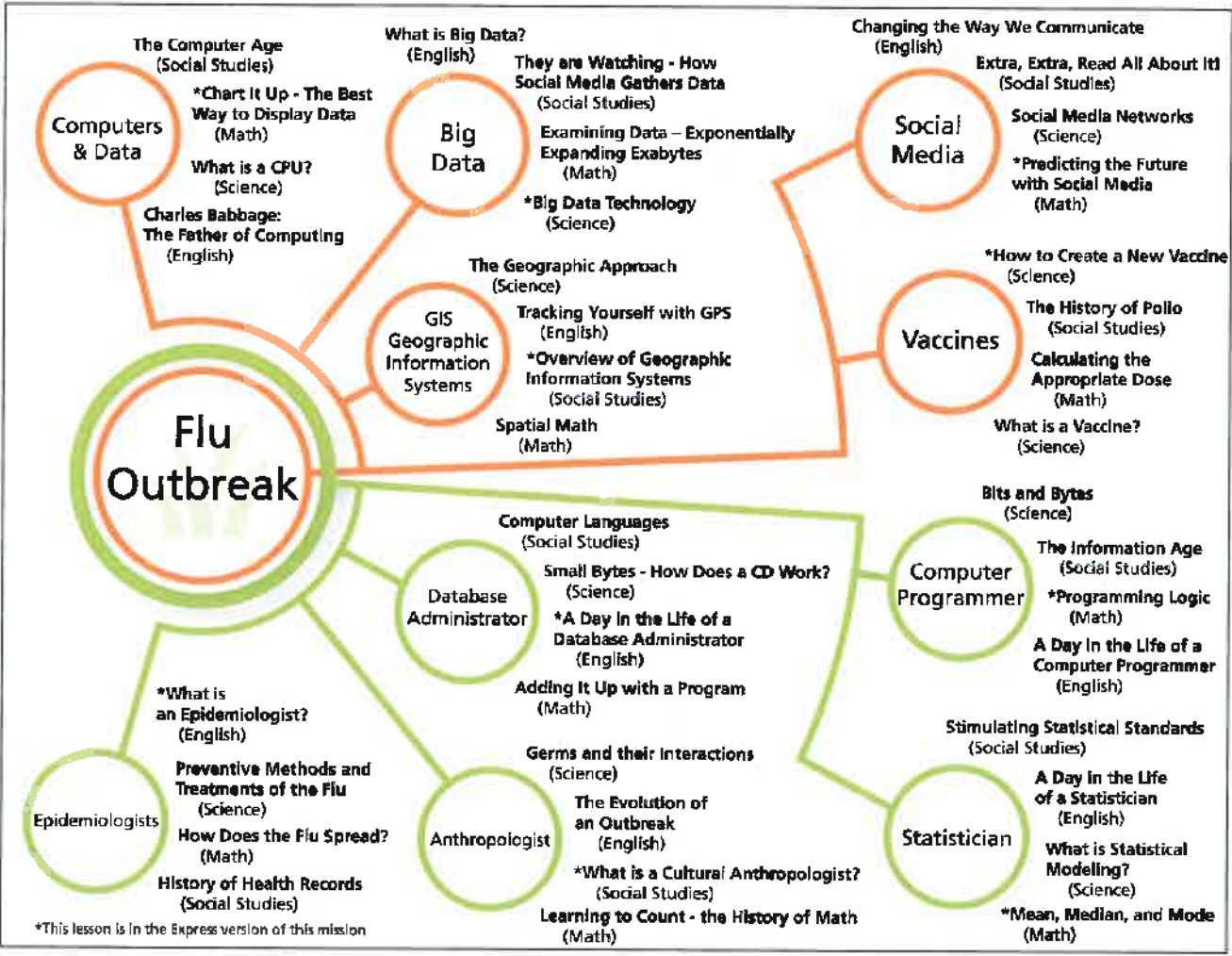
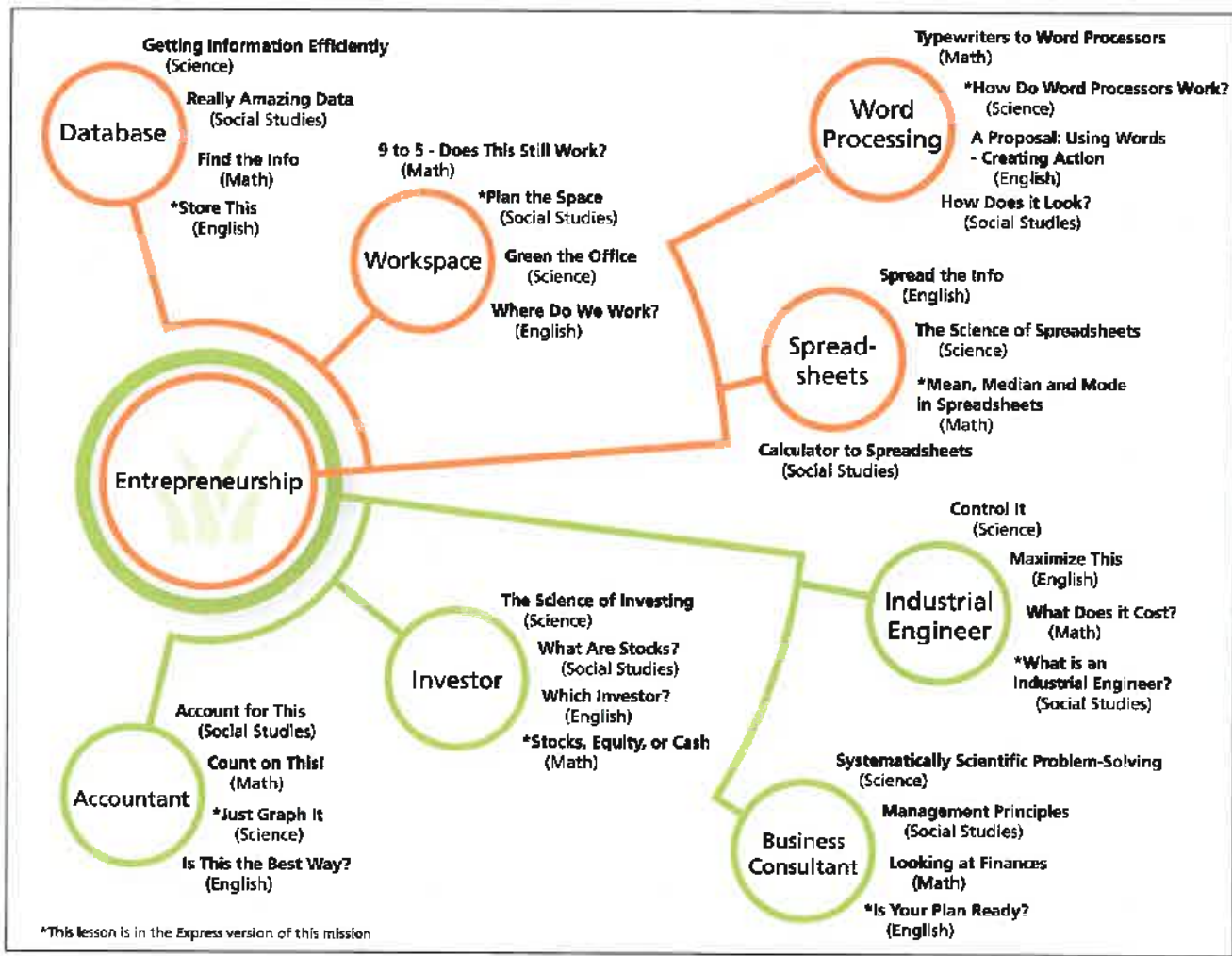




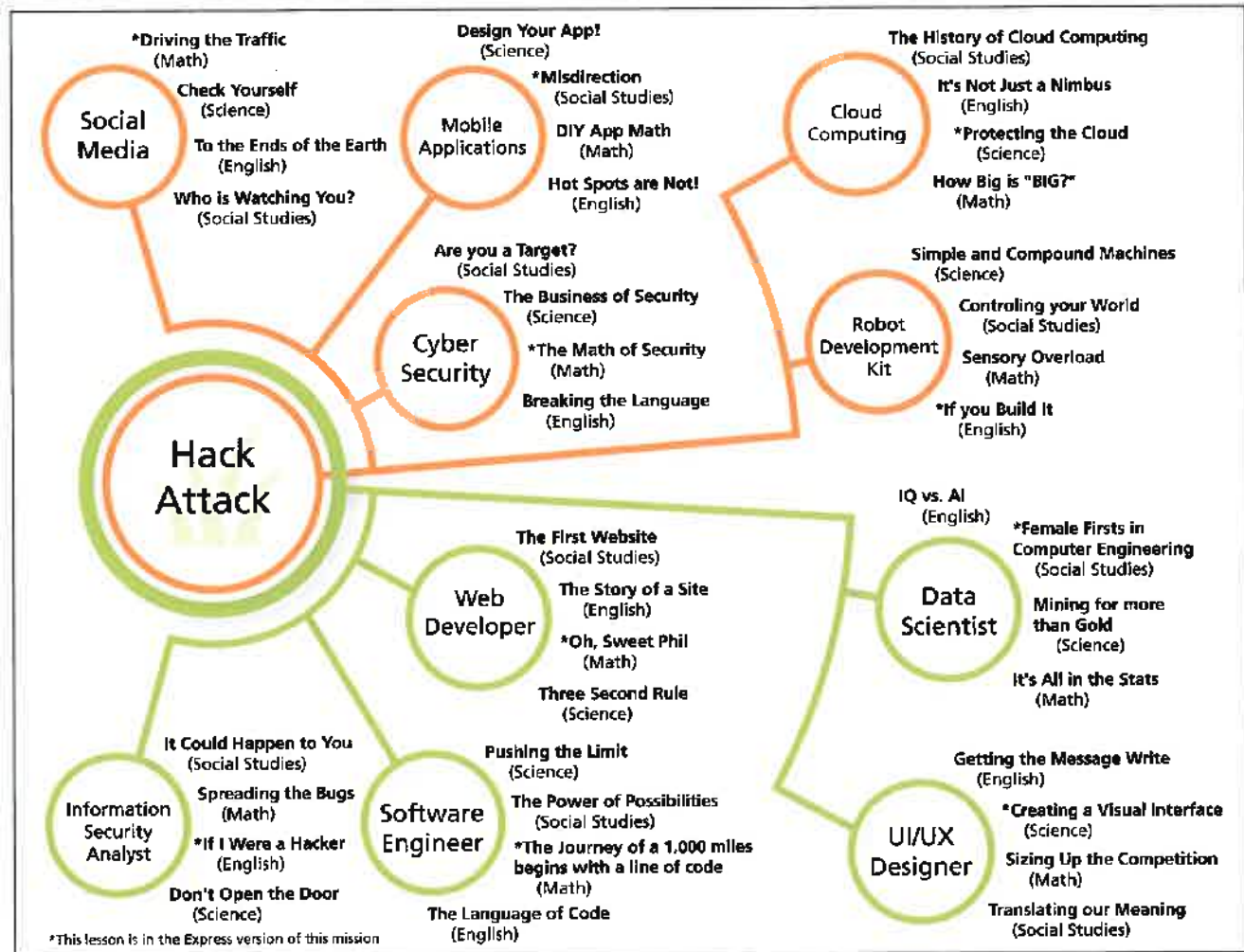
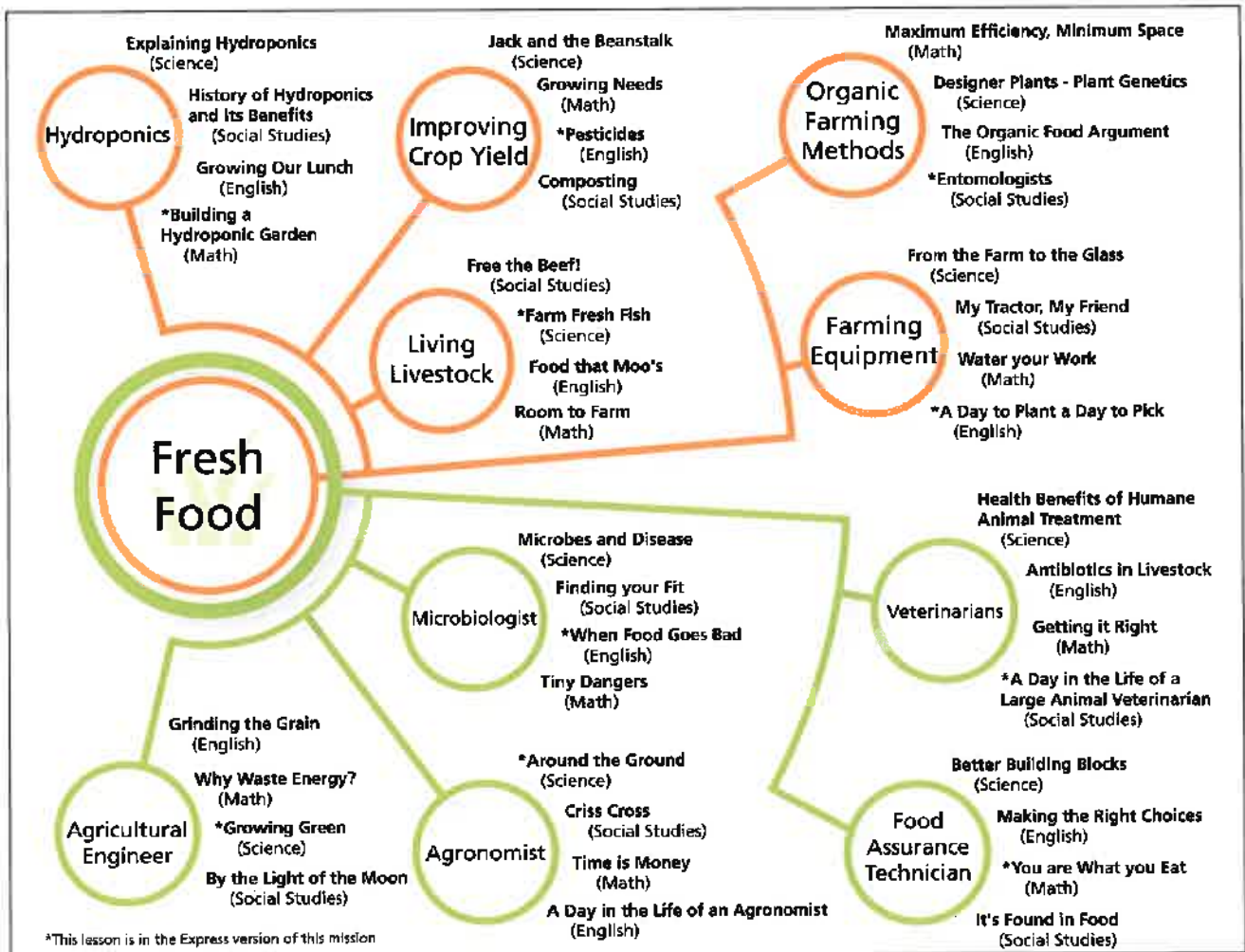
## MISSION OUTLINE DIAGRAMS

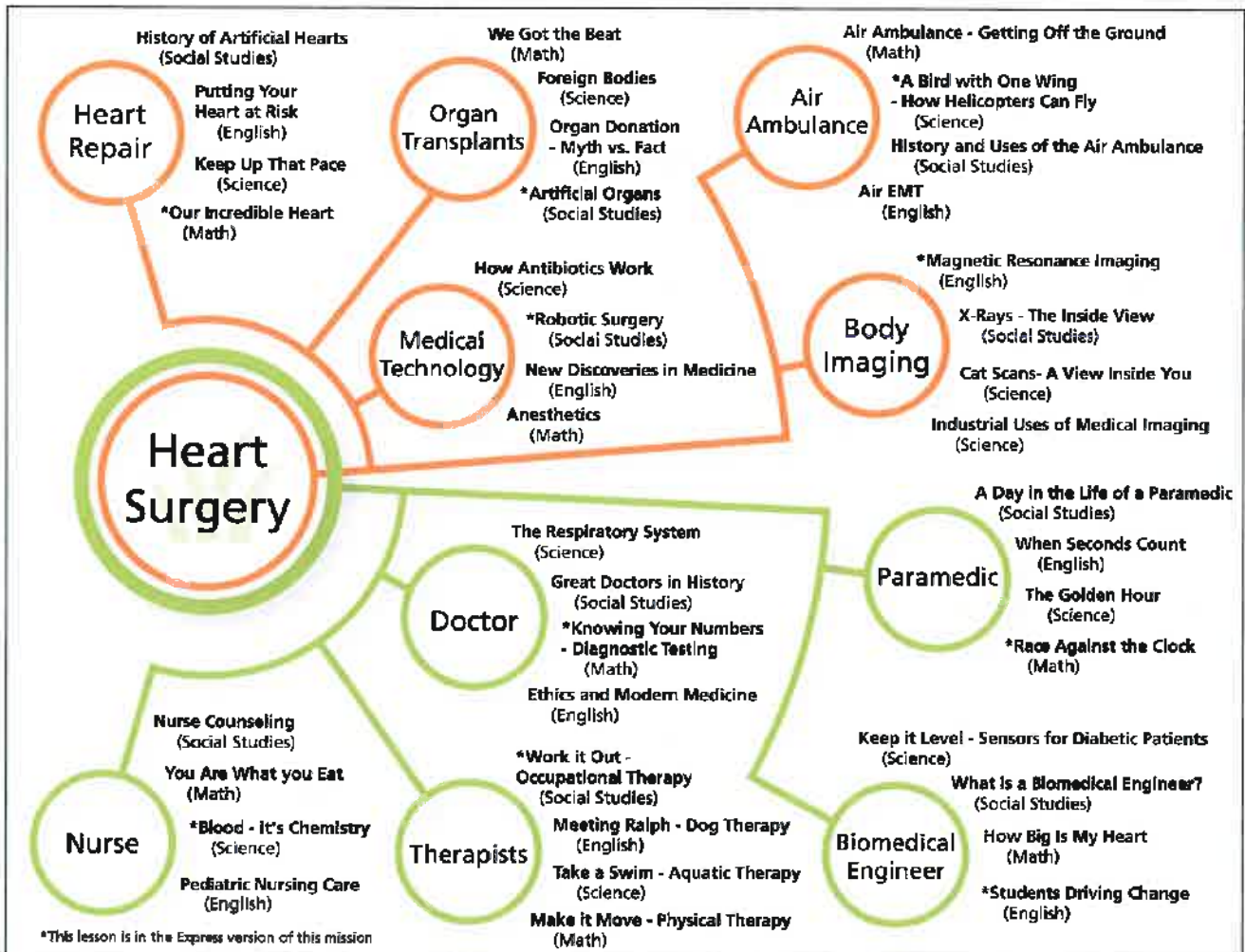
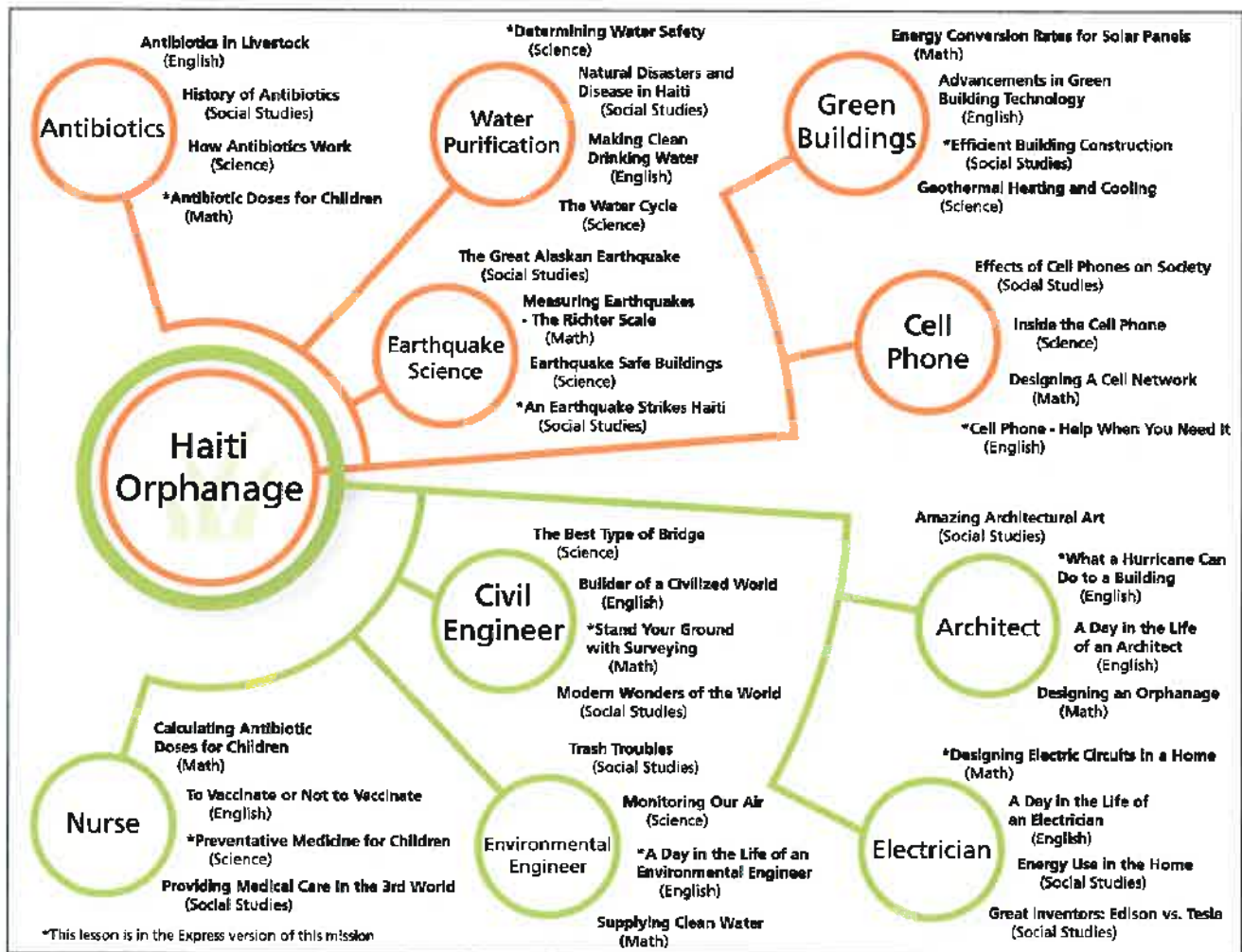
Mission	Description	Career Clusters
<b>Dolphin Rescue</b>	Help rescue rehabilitate an injured dolphin, including creating an artificial prosthetic tail	Biomedicine, Marine Science
<b>Energy Sources</b>	Evaluate alternative or upgraded energy sources for a city that currently has an old coal-fired power plant	Energy Production, Environment
<b>Entrepreneurship</b>	Set up a new business with a focus on entrepreneurship	Finance, Business
<b>Flu Outbreak</b>	How health and IT professionals can use data warehousing and analysis to predict flu outbreaks using GIS and social media data	Information Technology
<b>Fresh Food</b>	Consider methods to increase production of local foods in a community	Agriculture
<b>Hack Attack</b>	Learn about methods to create and protect website, apps and social media after a school's website and media are hacked	Computer Science
<b>Haiti Orphanage</b>	Design and build an environmentally-sound orphanage for children left homeless by an earthquake in Haiti	Construction, Sustainability
<b>Heart Surgery</b>	Conduct heart surgery and therapy for a child with a heart defect; evaluate the use of artificial hearts or heart components	Medicine
<b>Lightweight Aircraft</b>	Design a lightweight and easily maintained aircraft for distant missions	Lightweight Metals Manufacturing
<b>Manufacturing Concept</b>	Use modern manufacturing techniques to design and build a new concept car	Advanced Manufacturing
<b>Rescue Robot</b>	Explore technology used for robotics design, such as sensors, electrical circuits, industrial design and computers	Electronics, Computer Science
<b>Transportation Congestion</b>	Evaluate new transportation methods for a city that has a traffic congestion problem	Transportation



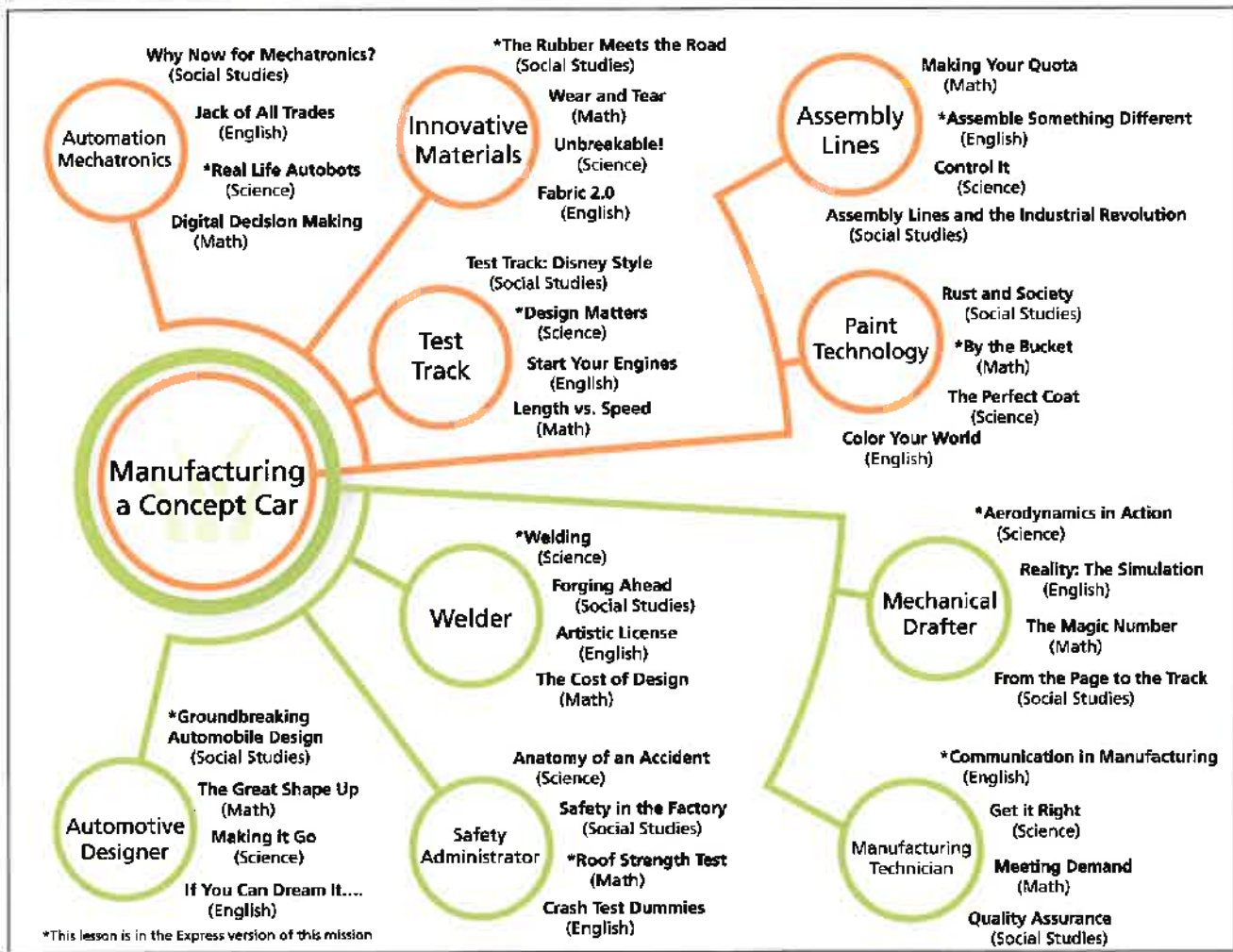
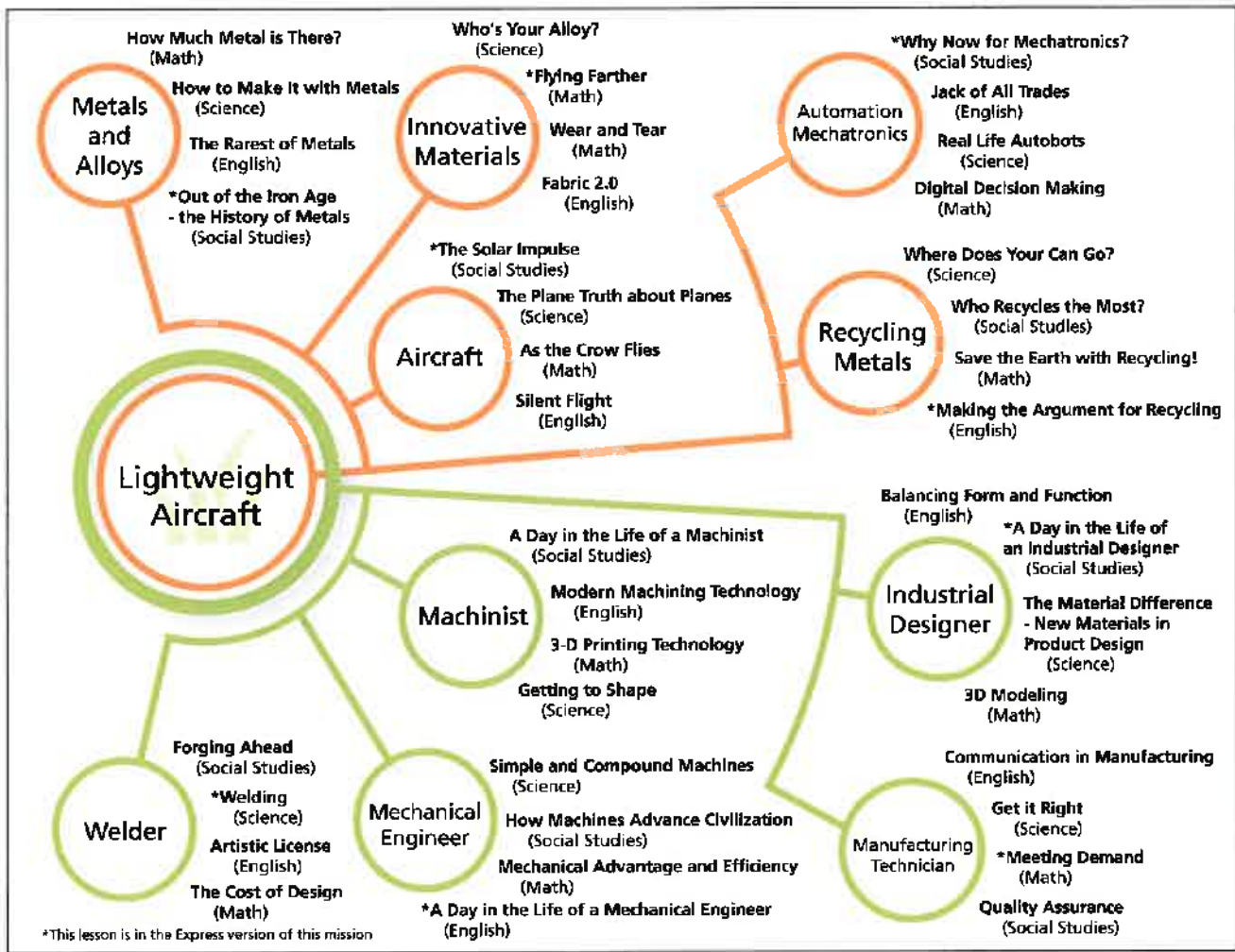


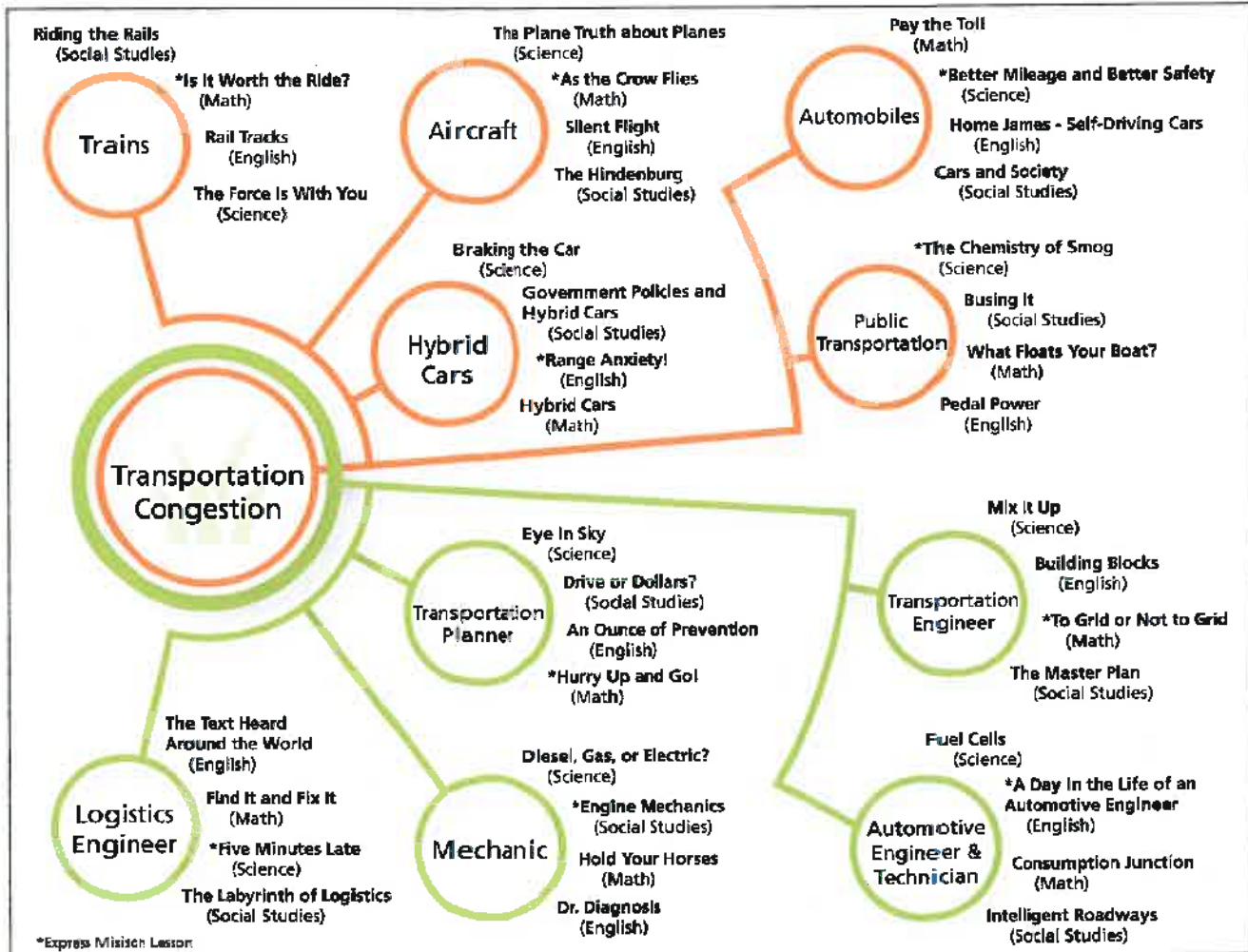
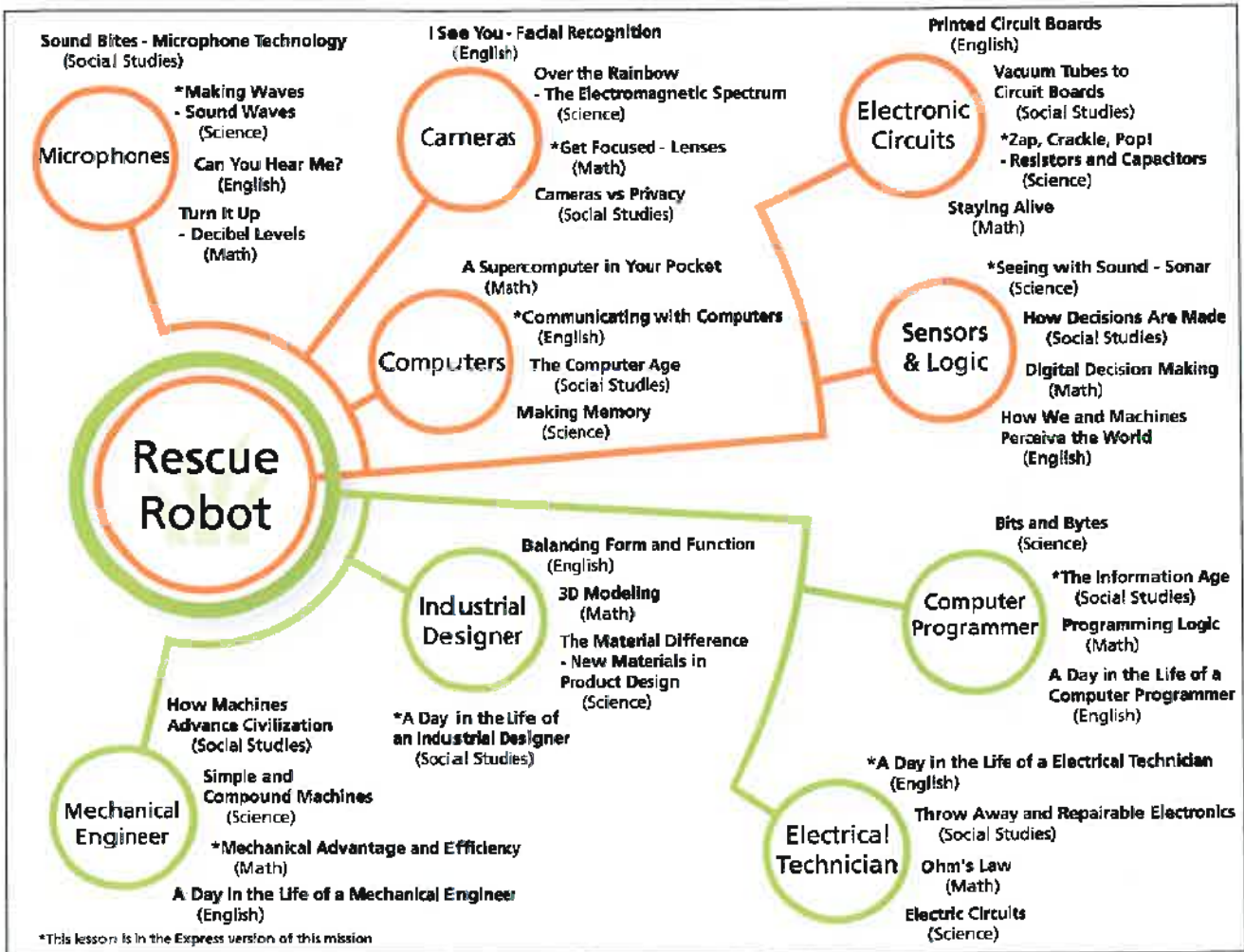








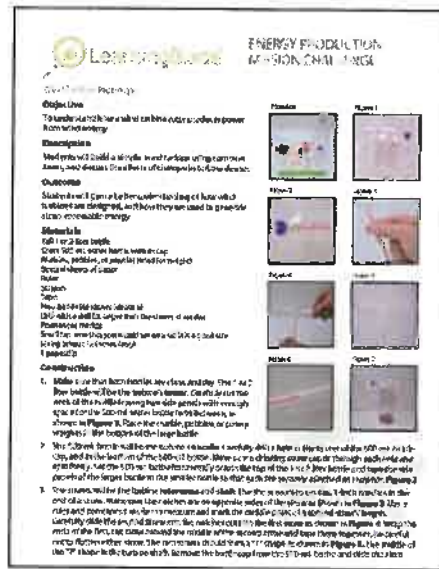




## Mission Challenges

The Mission Challenges provide simple, hands-on activities emphasizing problem solving, critical thinking, teamwork and communications. These mission capstone projects require simple, readily-available materials.

**Look for the Mission Challenges in the Resources section of your teacher account!**



## Papercraft Figures

As students complete each tool or teammate in a mission, they can access collectable papercraft figures. These foldable, 3D figures include a summary of the career or technology and can help provide further rewards to students.

**Teachers can access the papercraft figures in the Curriculum Preview in the Resources section of your teacher account.**

