

MISSION OUTLINE DIAGRAMS

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

