

Expectations and Outcomes

Grade Level/Course: 9-12

Content Area: Tech Ed

Unit Title	Guarantees
Unit 1	<ul style="list-style-type: none"> • Why Study Transportation? • Occupations in Transportation • Population and Oil Use Correlation • What is Energy? • Ecological Footprint
Unit 2	<ul style="list-style-type: none"> • Technological Systems • Types of Energy • Potential and Kinetic Energy • Sources of Energy • 6 Forms of Energy • What is Power?
Unit 3	<ul style="list-style-type: none"> • Mechanical Advantage • The 6 Simple Machines • Electrical Current & Magnetism • Electrical Circuits • The Electric Car • Calculating Efficiency • Converting units
Unit 4	<ul style="list-style-type: none"> • History of Land Transportation • Railroads • Maps in Transportation • Careers in the railroad
Unit 5	<ul style="list-style-type: none"> • Online Maps and GPS in Transportation • History of the Interstate • Careers in logistics

Unit Title	Guarantees
Unit 6	<ul style="list-style-type: none"> • Safety and Restraint Systems • Vehicular Subsystems
Unit 7	<ul style="list-style-type: none"> • Bridges • Calculating a Ratio for Efficiency
Unit 8	<ul style="list-style-type: none"> • History of Marine Transportation • Marine Transportation Today • Ocean Logistics • Containerization • Intermodal Transportation
Unit 9	<ul style="list-style-type: none"> • Hydrofoils • Submarines • History of Air Transportation • Lighter Than Air vs. Heavier Than Air • Lift of an Airplane • Air Logistics
Unit 10	<ul style="list-style-type: none"> • History of Space Transportation • Space transportation today and in the future • Preparing for a Career in Transportation