Course Title: Transportation Engineering
Board Approval Date:
Credit / Hours: .5 credit

Course Description:

Transportation Engineering focuses on problem solving activities in the areas of transportation. These activities will include projects involving land, air and water travel. Students will utilize various 3D CAD software packages to aid them in their project designs.

Learning Activities / Modes of Assessment:

Large group / Individual instruction
Worksheets
Participation & Clean Up
Individual / Group Work
Computer Aided Design
Computer Numeric Controlled Equipment

Tests and Quizzes
Checklists / Teacher Observation
Projects w/ Rubrics

Instructional Resources:

www.discoveryeducation.com
Technology Student Association
Learning Focused Schools
Online Tutorials
2D and 3D Architectural Software Programs

Course Pacing Guide

Course: **Transportation Engineering**

Course Unit (Topic)	**Length of Instruction (Days/Periods)**
1. 1C Using SolidWorks to Design Products for The Transportation Industry	10 days
2. 1E Flight Endurance Project	10 days
3. 2C CNC Machining	10 days
4. 2E Boat Hull Project	10 days
5. 3C Vehicle Design	25 days
6. 3E Transportation Modeling Project	10 days
7. 4E Egg Car Crash Project	10 days

Topic: 1C - Using SolidWorks to Design Products for the Transportation Industry Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.E4. – Compact** INFORMATION AND COMMUNICATION TECHNOLOGIES - Synthesize the effects of information and communication systems and subsystems as an integral part of the development of the Information Age. **3.4.12.E7. – Important** CONSTRUCTION TECHNOLOGIES - Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world.	3 Dimensional modeling programs allow engineers to design a product that could be used in the area of transportation.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.E7. – Important** CONSTRUCTION TECHNOLOGIES - Analyze the technologies of prefabrication and new structural materials and processes as they pertain to constructing the modern world. **3.4.12.E6. – Essential** MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. Develop the transportation themed practice drawings using SolidWorks 3.4.12.E4. - INFORMATION AND COMMUNICATION TECHNOLOGIES - Synthesize the effects of information and communication systems and subsystems as an integral part of the development of the Information Age.

Topic: 1C - Using SolidWorks to Design Products for the Transportation Industry Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.E6. – Essential MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. Reference Geometry Patterns Mirror Swept Boss/Cut Lofted Boss/Cut Structural Member		

Topic: 1E Flight Endurance Project Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:

3.4.12.A1. – Important
CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

3.4.12.A2. – Essential
CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.

3.4.12.A3. – Essential
TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM).

3.4.12.C2. – Essential
ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.

Understand:

Aerospace Engineers incorporate many principles in the development and construction of aircraft.

Do:

3.4.12.A1. – Important
CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.

3.4.12.A2. – Essential
CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.

3.4.12.A3. – Essential
TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM).

3.4.12.C2. – Essential
ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.

3.4.12.C3. – Essential
RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach.

3.4.12.D2. – Important
USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.

3.4.12.E5. – Important
TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques.

Analyze flight principles with a rubber band powered model aircraft.

Build, fly and adjust (trim) a model to make long endurance flights inside a contained airspace.

Topic: 1E Flight Endurance Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Flight principles with a rubber band powered model aircraft. 3.4.12.A2. - CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning,		

Topic: 1E Flight Endurance Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
organizing, and controlling work.		

Topic: 2C - CNC Machining
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.	CAD programs can be used to develop an actual part using the CNC machines.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time.
3.4.12.A2. – Essential CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.		**3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.
3.4.12.A3. – Essential TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM).		**3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM).
3.4.12.C2. – Essential ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.		**3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.
		3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach.
		3.4.12.D2. – Important USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.
		3.4.12.E5. – Important TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques.
		3.4.12.E6. – Essential MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world.

Topic: 2C - CNC Machining
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. **3.4.12.E6. – Essential** MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world.		Design a model of a car rim, or similar product,in SolidWorks and use the file to develop a G-Code for a CNC machine. Use the G-Code to create the actual part on one of the CNC machines.

Topic: 2C - CNC Machining
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
Computer Aided Machining (CAM) Computer Numberical Controlled (CNC) G-Code		

Topic: 2E Boat Hull Project Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.	An engineer incorporates buoyancy principles and hull design when constructing an efficient boat hull.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.C3. – Essential** RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Analyze buoyancy principles and hull design for a weight powered boat. Build and test a boat hull design to transport as much cargo as possible.

Topic: 2E Boat Hull Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Buoyancy principles and hull design for a weight powered boat. 3.4.12.A2. - CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning,		

Topic: 2E Boat Hull Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
organizing, and controlling work.		

Topic: 3C - Vehicle Design
Days: 25
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.C3. – Essential** RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach.	Engineers can virtually design and test vehicles using SolidWorks.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.C3. – Essential** RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E6. – Essential** MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. Design, test, build and race a CO2 powered dragster. Develop a working model of a bicycle and add animation to show how it works. 3.4.12.E4. - INFORMATION AND COMMUNICATION TECHNOLOGIES - Synthesize the effects of information and communication systems and subsystems as an

Topic: 3C - Vehicle Design
Days: 25
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.D2. – Important USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E4. – Compact** INFORMATION AND COMMUNICATION TECHNOLOGIES - Synthesize the effects of information and communication systems and subsystems as an integral part of the development of the Information Age. **3.4.12.E6. – Essential** MANUFACTURING TECHNOLOGIES - Compare and contrast the importance of science, technology, engineering and math (STEM) as it pertains to the manufactured world. Scale Proportion Using AutoCAD with SolidWorks to develop parts for the projects.		integral part of the development of the Information Age.

Topic: 3E Transportation Modeling Project Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.	Engineers use a variety of skills to design and fabricate a model vehicle.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.B1. – Essential** EFFECTS OF TECHNOLOGY - Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of technologies. **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.C3. – Essential** RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Design and fabricate a CO2 powered scale model of

Topic: 3E Transportation Modeling Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Engineering skills used to design and fabricate a CO2 powered scale model of a vehicle that meets the current year's stated design theme. Aspects of the automotive design and engineering process, including research, conceptualization,		a vehicle that meets the current year's stated design theme. Explore and experience aspects of the automotive design and engineering process, including research, conceptualization, development of drawings, prototype and model construction, and testing.

Topic: 3E Transportation Modeling Project Days: 10
Subject(s): Technology Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
development of drawings, prototype and model construction, and testing. 3.4.12.A2. - CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. 3.4.12.B1. - EFFECTS OF TECHNOLOGY - Analyze ethical, social, economic, and cultural considerations as related to the development, selection, and use of technologies.		

Topic: 4E Egg Car Crash Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.A1. – Important CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly.	Mechanical and Industrial Engineers design, construct, and analyze safety restraint systems for the safety of the occupant in a vehicle.	**3.4.12.A1. – Important** CHARACTERISTICS OF TECHNOLOGY - Compare and contrast the rate of technological development over time. **3.4.12.A2. – Essential** CORE CONCEPTS OF TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work. **3.4.12.A3. – Essential** TECHNOLOGY CONNECTIONS - Demonstrate how technological progress promotes the advancement of science, technology, engineering and mathematics (STEM). **3.4.12.C2. – Essential** ENGINEERING DESIGN - Apply the concept that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.C3. – Essential** RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. Research restraint systems for vehicles. Brainstorm ideas for the development of multiple systems for a vehicle. Design a vehicle that will safely transport a raw egg

Topic: 4E Egg Car Crash Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
3.4.12.C3. – Essential RESEARCH & DEVELOPMENT, INVENTION & INNOVATION, EXPERIMENTATION/ PROBLEM SOLVING AND TROUBLESHOOTING - Apply the concept that many technological problems require a multi-disciplinary approach. **3.4.12.D2. – Important** USING AND MAINTAINING TECHNOLOGICAL SYSTEMS - Verify that engineering design is influenced by personal characteristics, such as creativity, resourcefulness, and the ability to visualize and think abstractly. **3.4.12.E5. – Important** TRANSPORTATION TECHNOLOGIES - Explain how the design of intelligent and non-intelligent transportation systems depends on many processes and innovative techniques. The definition of a safety restraint system. How safety restraint systems work. Materials used in safety restraint systems. 3.4.12.A2. - CORE CONCEPTS OF		safely through a crash. Construct the vehicle using the supplied materials. Test the vehicle on a track.

Topic: 4E Egg Car Crash Project
Days: 10
Subject(s): Technology
Grade(s): 9th, 10th, 11th, 12th

Know:	Understand:	Do:
TECHNOLOGY - Describe how management is the process of planning, organizing, and controlling work.		