

## Appendix Q12 – STEM Curriculum Topics

### Land Transportation

- Highway Design
- Transportation Planning
- Traffic Signal Timing
- Transportation Logistics
- Public Transit
- Railroad Transportation
- Truck Operations
- Traffic Flow

### Water Transportation

- Deep Sea Freight Transportation
- Deep Sea Passenger
- Inter-Coastal Waterway
- Local Water Transportation
- Towing/Tugboat Services
- Marine Cargo Handling
- Marinas
- Water Transportation Services

### Air Transportation

- FAA ACE Academy
- Flight Theories
- Aircraft Performance
- Flight Instruments
- Power Plant Design
- Gravity (properties, etc.)
- Air Navigation
- Space

### Safety

- Safe Transportation Infrastructure
- Improving safety and communications
- Incentives for better safety
- Analyzing, forecasting trends/issues
- Benefits of safe transportation
- Pedestrian Safety
- Bicycle Safety
- Air Travel Safety
- Vehicle Safety

### Enhancement Program

- Time Management
- Critical Thinking
- Analytical Skills
- Study Habits
- Scholastic Assessment Test Prep
- Problem Solving
- Research Techniques, Library Use
- Vocabulary Development
- Oral and Written Communication Skills
- Computer Skills
- Personal Grooming/Skills for Daily Living
- Financial Literacy