









Cornwall-Lebanon School District Curriculum Overview

Introduction to Engineering

|  length of time in weeks | Concepts & Competencies | Common Assessments | Academic Standards (PA Core if applicable) |
|--|---|---|--|
| Unit 1  5 | <u>Introductory Unit</u> Definition of and understanding of Technology vs Engineering Areas of Technology Areas of Engineering | <ul style="list-style-type: none"> ➤ Steps of Problem Solving ➤ Egg Drop Activity | |
| Unit 2  4 | <u>Aerospace Technology</u> Principles of Flight Science of Flight | <ul style="list-style-type: none"> ➤ Plane Design, Prototype, and Testing | |
| Unit 3  4 | <u>Structures and Bridge Technology</u> Stress analysis and Materials Truss systems | <ul style="list-style-type: none"> ➤ Bridge Design, and Testing | |
| Unit 4  5 | <u>Transportation and CO₂ Dragster</u> Principles of Motion Force and Velocity | <ul style="list-style-type: none"> ➤ CO₂ Car Design, Prototype and Testing | |
| Unit 5  | | | |
| Unit 6  | | | |
| Unit 7  | | | |