8) **Student project** .......................................................................................................................... [Performance]

**Description:** Students conduct activities that result in the creation of a tangible product. These student artifacts may take on a variety of forms (e.g. games, 3-D printing, business plans, technical drawings, etc.). The FLO rubric is used to evaluate each product and the student rubric scores are recorded using the RUBRIC workbook.

**SCORING:** These projects are directly evaluated using a four-level scoring rubric.

**ANALYSIS:** The number of student scores meeting or exceeding a threshold rubric score of 3.0 is determined for the assignment. The average and 95% confidence interval of the class rubric scores is calculated and classified as indicated in the following scheme:

- **0) Deficient** \( 0.0 \leq \text{class average} < 1.0 \)
- **1) Beginning** \( 1.0 \leq \text{class average} < 1.8 \)
- **2) Progressing** \( 1.8 \leq \text{class average} < 2.6 \)
- **3) Proficient** \( 2.6 \leq \text{class average} < 3.4 \)
- **4) Advanced** \( 3.4 \leq \text{class average} \leq 4.0 \)

A one factor, two-tailed t-test is used to evaluate the statistical significance of differences between class average and the threshold score of 2.6 points. Cohen’s d is used to determine the magnitude of any effect sizes found.

**CRITERION LEVELING:** The expectations of the criteria of success depend upon the level of the course assessed. The target thresholds for each level are defined as follows:

- **100-level**
  - 50% of individuals should be proficient or better (3 on the rubric) by the end of instruction
  - The class average should fall within the progressing level (threshold ≥ 1.8)

- **200-level**
  - 60% of the individuals should be proficient or better (3 on the rubric) by the end of instruction
  - The class average should fall within the proficient level (threshold ≥ 2.6)

- **300-level**
  - 70% of individuals should be proficient or better (3 on the rubric) by the end of instruction
  - The class average should fall within the proficient level (threshold ≥ 2.6)

- **400-level**
  - 80% of individuals should be proficient or better (3 on the rubric) by the end of instruction
  - The class average should fall within the proficient level (threshold ≥ 2.6)