- (L) draw conclusions related to a hypothesis and support those conclusions using experimental data.
- (4) Physical Properties

- (M) create or convert electronically stored data or computer models to appropriate formats that can be utilized by other tools or applications, such as rapid pro**hogyp**quipment, Global Information Systems, and spreadsheet applications;
- (N) identify the changes that are attributed to an abstraction and what details have been hidden or removed; and

(O)

- (E) identify and describe contemporary engineering issues of localablend cultural significance; and
- (F) describe the interdisciplinary nature of modern engineering and explain why an interdisciplinary approach to engineering problem living can result in better, more sustainable solutions.
- (9) Project Management The student applies project management tools when designing and developing a solution to succespes scD9 (o)-71dpli (ag)2.6 (4 8.554 .3087 0 Td 3 (io)ail (ab)2.3 (le)-3 ra expc edc toolu

- x Students create maps and layers in a geographic information system.
- x Students use project management tools, like a project schedule, to promote project efficiency.

# Suggested methods for evaluating student outcomes:

PLTW offers Endf-Course assessments that measure subjecter knowledge as well as the in-demand, transportable skills. Additional assessment examples include:

- Online Polls
- Whole Class Whiteboarding
- 5x5 Journal students journabout the five most interesting ideas they discover during a lesson and explain five aspects of that idea that resonate with them.
- Misconception Checkteacher states a common idea or misconception about a topic. Students either agree or disagree with the misconception and explain their reasoning.
- KWHLA@chart- Students make a chart answering the questions:
  - K-What do I know?

W - What do I want to know?

- H-How will I find out?
- L-What have I learned?
- A What action will I take?

Q-What new questions do I have?

- Rubrics
- Student Presentations
- Graphic Organizers
- Engineering Design Notebook
- PLTW End of Course Exam

### Teacher qualifications:

- x Legacy Master Science Teacher.
- x Mathematics/Physical Science/Engineering: Grade2.6
- x Mathematics/Physical Science/Engineering: Grade2.8
- x Physical Science: Grades 26
- x Physical Science: Grades 28
- x Physics/Mathematics: Grades12.
- x Physics/Mathematics: Grades12.
- x ScienceGrades 712.
- x Science: Grades 182.
- x Science, Technology, Engineering, and Mathematics: Grates 6
- x Secondary Industrial Arts (Grades 26).
- x Secondary Industrial Technology (Grades2)6
- x Secondary Physics (Grade\$2).
- x Secondary Science (Grade\$26).
- x Secondary Science, Composite (Grade2)6
- x Technology Education: Grades 8.
- x Legacy Master Mathematics Teacher.
- x Mathematics: Grades-**7**2.
- x Mathematics: Grades-82.
- x Secondary Mathematics: Graded 8

