

Project Lead the Way Crosswalk to Michigan
State Standards
Grades 9-12 Science, Math and Technology

Engineering Design and Development

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Crosswalk Summary - Engineering Design and Development to Math Standards

Math Standards in Michigan include 4 strands, 16 standards and 202 standard indicators. Project Lead the Way Engineering Design and Development consists of five (5) units of study with 52 performance objectives. The chart below outlines some of the crosswalk details as follows:

- Units of the course
- Number of performance standards within each unit
- The number of strands linked/standards linked/indicators linked
- The ratio of performance objectives linked within each unit
- 2/4 Math Strands are linked to objectives in the Engineering Design and Development.
- 4/16 Math Standards are linked to objectives in the Engineering Design and Development course.
- 6/52 Engineering Design and Development performance objectives link to Michigan 9-12 grade Math Standards
- This course links to 16/202 standard indicators.

Detailed matrices are attached showing (a) how performance objectives link to all standards in the Engineering Design and Development course, and (b) how performance objectives link to all components of the Michigan Math standards.

Unit	Performance Standards	Strand/Standard/Indicators Linked to Performance Objectives	Performance Objectives Linked to Math Standards
1	7	0/0/0	0/7
2	15	0/0/0	0/15
3	17	2/2/13	4/17
4	12	1/1/8	2/12
5	1	0/0/0	0/1

Crosswalk Summary – Engineering Design and Development to Science Standards

Science Standards in Michigan include five (5) standards and 182 standard indicators. Project Lead the Way Engineering Design and Development consists of five (5) units of study with 52 performance objectives. The chart below outlines some of the crosswalk details as follows:

- Units of the course
- Number of performance standards within each unit
- The number of standards and indicators linked to performance objectives
- The ratio of performance objectives linked within each unit
- 1/5 Standards are linked to objectives in the Engineering Design and Development course.
- 17/52 Engineering Design and Development performance objectives link to Michigan 9-12 grade Science Standards
- This course links to 15/182 standard indicators.

A detailed matrix is attached showing exactly how performance objectives link to Michigan Science 9-12 grade standards and indicators in the Engineering Design and Development course.

Unit	Performance Standards	Standard/Indicators Linked to Performance Objectives	Performance Objectives Linked to Standards
1	7	0/0	0/7
2	15	0/0	0/15
3	17	1/15	10/17
4	12	1/6	7/12
5	1	1/2	1/1

Crosswalk Summary – Engineering Design and Development to Technology Standards

Technology Standards in Michigan include 6 standards and 44 standard indicators. Project Lead the Way Engineering Design and Development consists of five (5) units of study with 52 performance objectives. The chart below outlines some of the crosswalk details as follows:

- Units of the course
- Number of performance standards within each unit
- The number of standards and standard indicators linked to performance objectives
- The ratio of performance objectives linked within each unit
- 6/6 Standards are linked to objectives in the Engineering Design and Development course.
- 22/52 Engineering Design and Development performance objectives link to Michigan 9-12 grade Science Standards
- This course links to 15/44 standard indicators.

Detailed matrices are attached showing (a) how performance objectives link to all standards in the Engineering Design and Development course, and (b) how performance objectives link to all components of the Michigan Technology standards.

Unit	Performance Standards	Strand/Standard/Indicators Linked to Performance Objectives	Performance Objectives Linked to Standards
1	7	2/2	2/7
2	15	5/12	12/15
3	17	4/6	7/17
4	12	1/2	1/12
5	1	0/0	0/12