

Curriculum Connections



Below is a list of direct connections between WEMADEIT lessons and the Ontario STEM Curriculum as well as cross-curricular ties. Detailed cross-curricular suggestions can be found on page 3 of each lesson.

Engineering Design Process

Grade 7&8

1 - 45 min. period

This lesson is an introduction to the Engineering Design Process. It gives educators the tools to foster excitement to investigate, explore and imagine within students and provides a framework for students to solve problems.

Power Generator

Grade 7&8

6 to 8 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

All the overall expectations within the Grade 7 and Grade 8 Understanding Structures & Mechanisms units.

CROSS-CURRICULAR

- Grade 7 & 8: Mathematics
- Grade 7 & 8: Literacy
- Grade 7 & 8: STSE Extensions

Rube Goldberg Machines

Grade 8

6 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Systems in Action.

- Grade 7: 2.4, 2.6, 3.1, 3.2, 3.3

CROSS-CURRICULAR

- Literacy
- History

Zombie Apocalypse

Grade 7&8

1 to 2 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms:

- Grade 7, Form & Function : 2.2, 2.6, 2.7, 2.4, 3.4
- Grade 8, Systems in Action: 2.4, 2.6, 2.7, 3.1, 3.2, 3.3

CROSS-CURRICULAR

- Grade 7: Themes of Geographic Inquiry - Application
- Grade 8: History - Canada, A Changing Society

Precious Cargo

Grade 7

5 to 6 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms Form & Function

- Grade 7: 1.1, 2.2-2.6, 3.2, 3.4, 3.5

CROSS-CURRICULAR

- Geography - Patterns in Physical Geography

The Amazing Waterwheel Race!

Grade 7&8

5 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms.

- Grade 7, Form & Function: 2.2-2.4, 2.6, 2.7, 3.7
- Grade 8, Systems in Action: 2.2-2.4, 2.6, 2.7, 3.1-3.5, 3.8, 3.9

CROSS-CURRICULAR

- Grade 7 & 8: Writing and Media Literacy
- Grade 7: Geography - Natural Resources
- Grade 8: History

Crane Operator - A Balancing Act

Grade 7

1 hour

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Form & Function

- Grade 7: 2.2, 2.3, 2.6, 3.2, 3.3, 3.6

CROSS-CURRICULAR

- Mathematics - Patterning and Algebra

Bridge the Gap

Grade 7

5 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms

- Grade 7: 1.1, 2.2-2.4, 3.3, 3.4, 3.6

CROSS-CURRICULAR

- Themes of Geographic Inquiry

Engineering a Dam

Grade 7

5 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Form & Function

- Grade 7: 1.1, 2.1-2.4, 2.6, 3.3, 3.4

CROSS-CURRICULAR

- Geography - Natural Resources

Take a Seat!

Grade 7

5 to 6 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Form & Function

- Grade 7: 1.1, 1.2, 2.1, 2.4, 2.6, 2.7

CROSS-CURRICULAR

- Mathematics
- Media Literacy

Oil Spills

Grade 8

4 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Systems in Action

- Grade 8: 1.1, 1.2, 2.4, 2.7, 3.1-3.3, 3.8, 3.9

CROSS-CURRICULAR

- Mathematics

Engineering Thrills

Grade 7

4 to 5 - 45 min. periods

ONTARIO SCIENCE & TECHNOLOGY CURRICULUM

Understanding Structures & Mechanisms: Form & Function

- Grade 7: 1.1, 2.1-2.6, 3.2, 3.4-3.6

CROSS-CURRICULAR

No specific cross-curricular ties.

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