Pushing the Envelope

National Standards

Grades 6 – 8 Technology

Source: National Standards National Educational Technology Standards for Students 2007

Lesson/Activity	Grades 6 - 8 Technology Standards
History of Aviation Propulsion (pgs. 5-9)	c. develop cultural understanding and global awareness by engaging with learners of other cultures.
Types of Engines (pgs. 11-23)	a. understand and use technology systems.
Types of Engines (pgs. 11-23)	c. troubleshoot systems and applications.
Chemistry (pgs. 25-41)	b. plan and manage activities to develop a solution or complete a project.
Chemistry (pgs. 25-41)	d. process data and report results.
Chemistry (pgs. 25-41)	c. use models and simulations to explore complex systems and issues.
Physics and Math (pgs. 43-63)	a. identify and define authentic problems and significant questions for investigation.
Physics and Math (pgs. 43-63)	d. process data and report results.
Physics and Math (pgs. 43-63)	c. use models and simulations to explore complex systems and issues.
Rocket Activity (pgs. 69-75)	a. understand and use technology systems.
Rocket Activity (pgs. 69-75)	c. use models and simulations to explore complex systems and issues.

Pushing the Envelope

National Standards

Grades 9 – 12 Technology

Source: National Standards National Educational Technology Standards for Students 2007

Lesson/Activity	Grades 9 - 12 Technology Standards
History of Aviation Propulsion (pgs. 5-9)	c. develop cultural understanding and global awareness by engaging with learners of other cultures.
Types of Engines (pgs. 11-23)	a. understand and use technology systems.
Types of Engines (pgs. 11-23)	c. troubleshoot systems and applications.
Chemistry (pgs. 25-41)	b. plan and manage activities to develop a solution or complete a project.
Chemistry (pgs. 25-41)	d. process data and report results.
Chemistry (pgs. 25-41)	c. use models and simulations to explore complex systems and issues.
Physics and Math (pgs. 43-63)	a. identify and define authentic problems and significant questions for investigation.
Physics and Math (pgs. 43-63)	d. process data and report results.
Physics and Math (pgs. 43-63)	c. use models and simulations to explore complex systems and issues.
Rocket Activity (pgs. 69-75)	a. understand and use technology systems.
Rocket Activity (pgs. 69-75)	d. process data and report results.
Rocket Activity (pgs. 69-75)	c. use models and simulations to explore complex systems and issues.