Secondary Education
Math
Grades 8-9
Multiplying Polynomials

PA Academic Standards:
2.5.11A Select and use appropriate mathematical concepts and techniques from
different areas of mathematics and apply them to solving non-routine and multi-step
problems.
2.5.11C Present mathematical procedures and results clearly, systematically, succinctly,
and correctly.

Overview
After viewing http://www.howcast.com/videos/72561-A1107-Multiplying-Polynomials students
will be able to successfully multiply polynomials.

Clerical/Administrative Tasks

Objectives
• Multiply polynomials by using the Distributive Property.
• Given 2 polynomials, students will be able to multiply using the FOIL pattern.
• Students will be able to define the basic components of the Distributive Property and
  FOIL method

Materials
• Overhead projector
• Transparencies
• Aluminum foil for all students to have at their desks
• Pencil
• Paper

Procedures
• Put up FOIL transparency.
• Review terms.
• Review the first problem on the transparency using the Distributive Property.
• “Does everybody remember how we used the Distributive Property in the last chapter?”
• Show the class what FOIL stands for.
• Do the first example on the transparency using the FOIL method, step-by-step.
• Model 3 examples of multiplying binomials using FOIL on the chalkboard, first using the
  Distributive Property and then using the FOIL method.
• Put 2 more problems on the chalkboard and ask for 2 volunteers to work the problems at
  the board while the others do the problems at their seats (I will be monitoring their work
  as I walk around, troubleshooting any problems)
Show the students how to multiply a binomial by a trinomial on the chalkboard, term-by-term (2 examples)

Put 2 more problems on the chalkboard and ask for 2 volunteers to work the problems at the board while the others do the problems at their seats (I will be monitoring their work as I walk around, troubleshooting any problems)

Evaluation

- Informally assess students' progress and help troubleshoot problems during the lesson.
- Informally assess students by asking them what to do next when solving examples on the chalkboard.
- Formally assess students when grading homework.