Assessment Blueprint - Unit 6 Working with Polynomials

Unit 6 Overview and Readiness (prerequisite skill assessment)

Item	TEKS
1	Math 6.7(A) generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization
2	Math 6.7(D) generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties
3	Math 5.4(A) identify prime and composite numbers

Unit 6 Section A

Item	TEKS
1	A10(A) add and subtract polynomials of degree one and degree two
2	A10(B) multiply polynomials of degree one and degree two
3	A10(B) multiply polynomials of degree one and degree two
4	A10(C) determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend
5	A10(C) determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend

Unit 6 Section B

Item	TEKS
1	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
2	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
3	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
4	A10(E) factor, if possible, trinomials with real factors in the form ax^2+bx+c, including perfect square trinomials of degree two
5	A10(F) decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial

Unit 6 Quiz

Item	TEKS
1	A10(A) add and subtract polynomials of degree one and degree two
2	A10(B) multiply polynomials of degree one and degree two
3	A10(B) multiply polynomials of degree one and degree two
4	A10(C) determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend
5	A10(C) determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend
6	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property

7	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
8	A10(E) factor, if possible, trinomials with real factors in the form ax^2+bx+c, including perfect square trinomials of degree two
9	A10(F) decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial
10	A12(B) evaluate functions, expressed in function notation, given one or more elements in their domains

Unit 6 STAAR Review

Item	TEKS
1	A10(E) factor, if possible, trinomials with real factors in the form ax^2+bx+c, including perfect square trinomials of degree two
2	A10(B) multiply polynomials of degree one and degree two
3	A10(F) decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial
4	A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
5	A10(A) add and subtract polynomials of degree one and degree two
6	A11(B) simplify numeric and algebraic expressions using the laws of exponents, including integral and rational exponents
7	A2(C) write linear equations in two variables given a table of values, a graph, and a verbal description)
8	A3(C) graph linear functions on the coordinate plane and identify key features, including x-intercept, y-intercept, zeros, and slope, in mathematical and real-world problems
9	A2(I) write systems of two linear equations given a table of values, a graph, and a verbal description

10	A2(F) write the equation of a line that contains a given point and is perpendicular to a given line

Unit 6 Project

TEKS
A10(A) add and subtract polynomials of degree one and degree two
A10(B) multiply polynomials of degree one and degree two
A10(C) determine the quotient of a polynomial of degree one and polynomial of degree two when divided by a polynomial of degree one and polynomial of degree two when the degree of the divisor does not exceed the degree of the dividend
A10(D) rewrite polynomial expressions of degree one and degree two in equivalent forms using the distributive property
A10(E) factor, if possible, trinomials with real factors in the form ax^2+bx+c, including perfect square trinomials of degree two
A10(F) decide if a binomial can be written as the difference of two squares and, if possible, use the structure of a difference of two squares to rewrite the binomial