ALGEBRA 2
Proficiency Scale: Polynomial Functions

Essential Learning Target: I can find the roots/zeros of a polynomial, state its complete factorization, and make a graph showing zeros and end behavior.

Scoring Guidelines

SCORE 4.0	In addition to Score 3.0, in-depth inferences and applications that go beyond what was taught. I can ~~factor a 4+ degree~~ and find all its key features.
SCORE 3.0	The student will: I can find all complex roots/zeros of a polynomial, state its complete factorization. The student exhibits no major errors or omissions.
SCORE 2.0	There are no major errors or omissions regarding the simpler details and processes as the student: Recognizes or recalls specific terminology as: Degree Rational Zeros End Behavior Polynomial Constant Term Multiplicity Roots/Zeros/x-intercepts Remainder Theorem Complex Conjugate Leading Coefficient Remainder Complete Factorization Performs basic processes, such as: I can classify a polynomial by degree and number of terms and write it in standard form. I can simplify an expression involving monomials and polynomials. I can identify the end behavior of a polynomial using the degree and the leading coefficient. I can factor a polynomial using GCF, grouping, slip & slide, etc… I can determine the multiplicity of a zero and its effect on the graph. I can write a polynomial in standard form given its zeros and their multiplicities. I can identify key features of a polynomial given its graph.

I can divide using long division.