**Algebra 2 Unit 4: Polynomial Functions**

**Standards:**

**Test Standards:**

Standard 21: Classify polynomial expressions by degree and identify the parts of an expression (terms, coefficients, constants, etc.).

Standard 22: Re-write a polynomial expression in standard form.

Standard 23: Add polynomial functions.

Standard 24: Subtract polynomial functions.

Standard 25: Multiply polynomials.

Standard 26: Divide polynomials using long division.

Standard 27: Divide polynomials using synthetic division.

Standard 28: Use the rational zero theorem to determine the zeros of polynomial functions.

Standard 29: Factor polynomial functions.

Standard 30: Utilize the graphs of polynomial functions to analyze

1. Domain and Range
2. X- and y- intercepts
3. Relative maximum or minimum values
4. Absolute maximum or minimum values
5. Intervals of increasing and decreasing
6. Inflection points

Standard 31: Utilize polynomials in real-life applications.

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