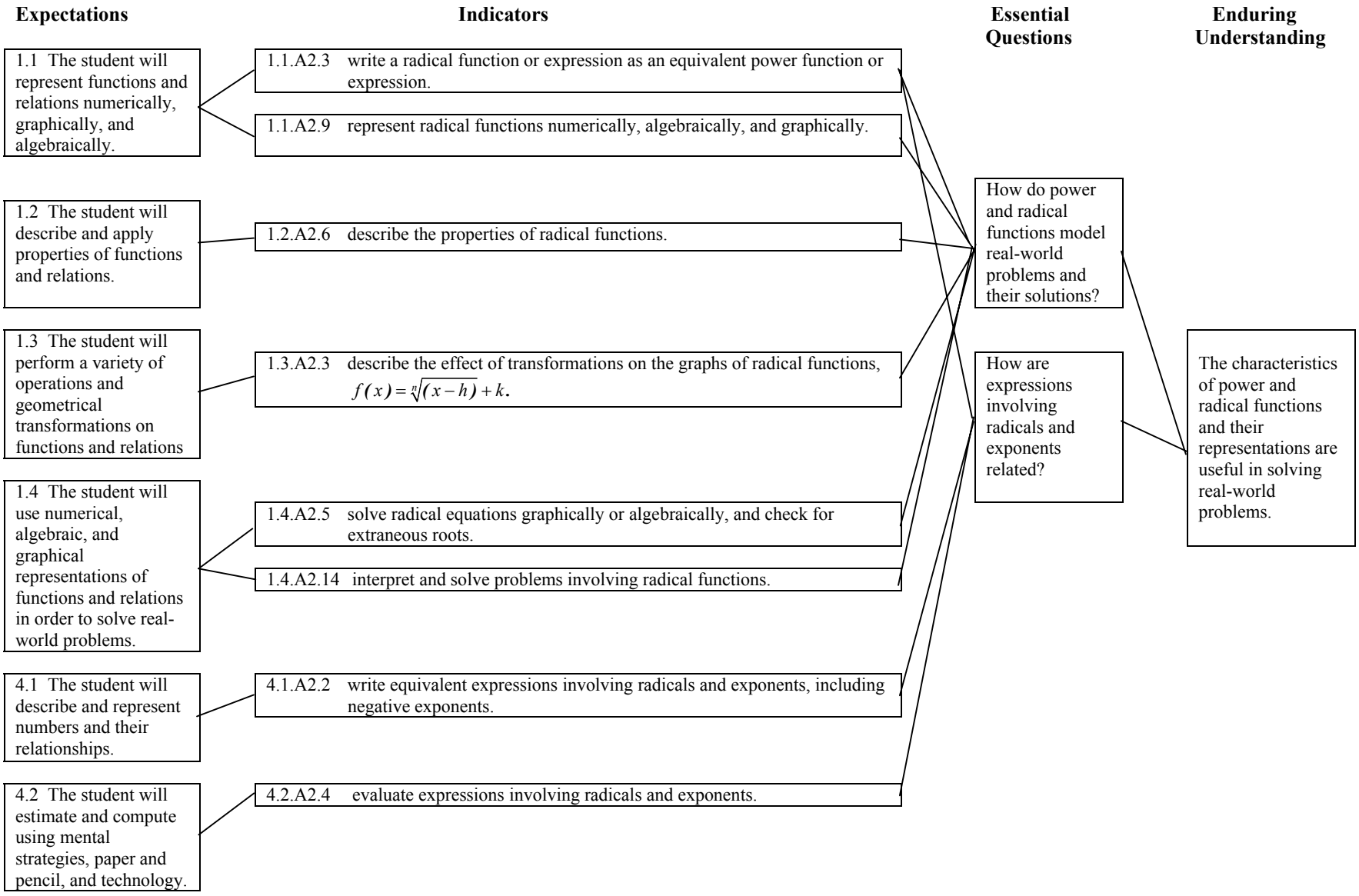
Expectations
Indicators
Essential Questions
Enduring Understanding
1.1 The student will represent functions and relations numerically, graphically, and algebraically.
1.1.A2.3 write a radical function or expression as an equivalent power function or expression.
1.1.A2.9 represent radical functions numerically, algebraically, and graphically.
1.2 The student will describe and apply properties of functions and relations.
1.2.A2.6 describe the properties of radical functions.
1.3 The student will perform a variety of operations and geometrical transformations on functions and relations
1.3.A2.3 describe the effect of transformations on the graphs of radical functions, $f(x) = \sqrt[n]{(x-h)} + k$.
1.4 The student will use numerical, algebraic, and graphical representations of functions and relations in order to solve real-world problems.
1.4.A2.5 solve radical equations graphically or algebraically, and check for extraneous roots.
1.4.A2.14 interpret and solve problems involving radical functions.
4.1 The student will describe and represent numbers and their relationships.
4.1.A2.2 write equivalent expressions involving radicals and exponents, including negative exponents.
4.2 The student will estimate and compute using mental strategies, paper and pencil, and technology.
4.2.A2.4 evaluate expressions involving radicals and exponents.
How do power and radical functions model real-world problems and their solutions?
How are expressions involving radicals and exponents related?
The characteristics of power and radical functions and their representations are useful in solving real-world problems.