|  |  |  |  |
| --- | --- | --- | --- |
| It is expected that students can . . . | Emergent  | Proficient  | Master |
| Demonstrate an understanding of powers with integral bases (excluding base 0) and whole number exponents by: • representing repeated multiplication, using powers • using patterns to show that a power with an exponent of zero is equal to one • solving problems involving powers. [C, CN, PS, R] |  |  |  |
| Demonstrate an understanding of operations on powers with integral bases (excluding base 0) and whole number exponents: [C, CN, PS, R, T] [ICT: P2–3.4] |  |  |  |
| Demonstrate an understanding of rational numbers by: • comparing and ordering rational numbers • solving problems that involve arithmetic operations on rational numbers. [C, CN, PS, R, T, V] |  |  |  |
| Explain and apply the order of operations, including exponents, with and without technology. [PS, T] [ICT: P2–3.4] |  |  |  |
| Determine the square root of positive rational numbers that are perfect squares. [C, CN, PS, R, T] [ICT: P2–3.4] |  |  |  |
| Determine an approximate square root of positive rational numbers that are non-perfect squares. [C, CN, PS, R, T] [ICT: P2–3.4] |  |  |  |

**Develop Number Sense**