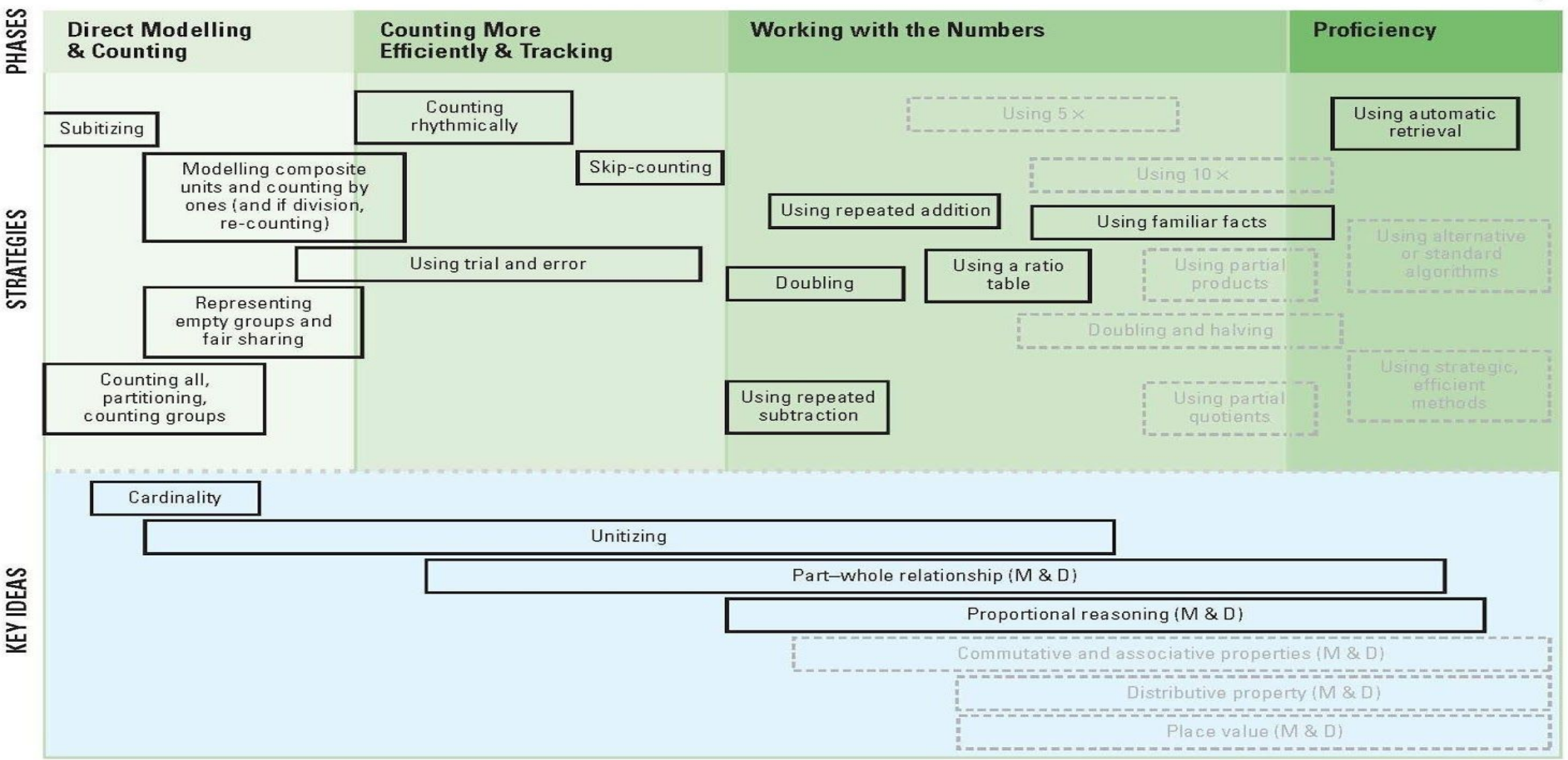


Student Continuum of Numeracy Development: Multiplication and Division



Student Continuum of Numeracy Development: Addition and Subtraction

PHASES

Direct Modelling & Counting

Counting More Efficiently & Tracking

Working with the Numbers

Proficiency

STRATEGIES

Subitizing

Counting three times

Skip-counting

Counting on from the larger number

Counting on/ counting back

Using trial and error

Using up/down over 10

Using the five- or ten-anchor

Using near doubles

Using a known fact

Taking from 10

Splitting

Taking jumps of 10 forward or backward

Getting to a decade number and taking jumps of 10 forward or backward

Using overshoot and return

Using constant difference

Using automatic retrieval

Using strategic, efficient methods

Using alternative or standard algorithms

KEY IDEAS

One-to-one correspondence

Cardinality

Part-whole relationship (A & S)

Hierarchical inclusion

Commutative and associative properties (A & S)

Equivalence (A & S)

Unitizing (A & S)

Place value (A & S)

