## Mathematics - Grade 4

### Claim #1
**Concepts and Procedures**
Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.

#### Operations and Algebraic Thinking
- **Target A** [m]*
  Use the four operations with whole numbers to solve problems.
  - Standards
    4.OA 1
    4.OA 2
    4.OA 3
  - DOK 1, 2
- **Target B** [a/s]*
  Gain familiarity with factors and multiples.
  - Standard
    4.OA 4
  - DOK 1, 2
- **Target C** [a/s]*
  Generate and analyze patterns.
  - Standard
    4.OA 5
  - DOK 2,3

#### Number and Operations in Base Ten
- **Target D** [m]*
  Generalize place value understanding for multi-digit whole numbers.
  - Standards
    4.NBT 1
    4.NBT 2
    4.NBT 3
  - DOK 1, 2
- **Target E** [m]*
  Use place value understanding and properties of operations to perform multi-digit arithmetic.
  - Standards
    4.NBT 4
    4.NBT 5
    4.NBT 6
  - DOK 1, 2

*In the tables above, these designations—[m] “major” and [a/s] “additional/supporting”—are provided at the cluster level. See Appendix for further explanation.*

Created by Orange USD Student Assessment and Educational Measurement (Bourgeois Ph. D./Torres)
Revised 4/4/18 (Rosselli)
Mathematics - Grade 4

Claim #1
Concepts and Procedures
Students can explain and apply mathematical concepts and carry out mathematical procedures with precision and fluency.

Number and Operations – Fractions
- Target F [m]*: Extend understanding of fraction equivalence and ordering.
  - Standards 4.NF 1 4.NF 2
  - DOK 1, 2
- Target G [m]*: Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
  - Standards 4.NF 3 4.NF 4
  - DOK 1, 2
- Target H [m]*: Understand decimal notation for fractions, and compare decimal fractions.
  - Standards 4.NF 5 4.NF 6 4.NF 7
  - DOK 1, 2

Measurement and Data
- Target I [a/s]*: Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
  - Standards 4.MD 1 4.MD 2 4.MD 3
  - DOK 1, 2
- Target J [a/s]*: Represent and interpret data.
  - Standard 4.MD 4
  - DOK 1,2

Geometry
- Target K [a/s]*: Geometric measurement: understand concepts of angle and measure angles.
  - Standards 4.MD 5 4.MD 6 4.MD 7
  - DOK 1, 2
- Target L [a/s]*: Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
  - DOK 1, 2

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