

Kansas Alternate Assessment Alignment Study

Links for Academic Learning

Appendices

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May 1, 2011

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Table A1

Reviewer Ratings for Primary National Reading Standard Links

| Extended Indicator | Reading | Writing | Speaking | Listening | Viewing | Research | Missing | Total |
|--------------------|---------|---------|----------|-----------|---------|----------|---------|-------|
| ER.1.1.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.1.2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ER.1.1.3 | 4 | 0 | 0 | 0 | 2 | 0 | 0 | 6 |
| ER.1.1.4 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.1.1.5 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 6 |
| ER.1.2.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.2.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.2.3 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.2 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 6 |
| ER.1.3.3 | 2 | 0 | 0 | 2 | 2 | 0 | 0 | 6 |
| ER.1.3.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.10 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.14 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.8 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |

| Extended Indicator | Reading | Writing | Speaking | Listening | Viewing | Research | Missing | Total |
|--------------------|---------|---------|----------|-----------|---------|----------|---------|-------|
| ER.2.2.1 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| ER.2.2.2 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| ER.2.2.3 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| ER.2.2.4 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| ER.2.2.5 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| Total | 216 | 0 | 3 | 8 | 13 | 0 | 6 | 246 |
| % of Total | 87.8 | 0.0 | 1.2 | 3.3 | 5.3 | 0.0 | 2.4 | 100 |

Table A2

Reviewer Ratings for Secondary National Reading Standard Links

| Extended Indicator | Reading | Writing | Speaking | Listening | Viewing | Research | Missing | Total |
|--------------------|---------|---------|----------|-----------|---------|----------|---------|-------|
| ER.1.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.1.3 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 3 |
| ER.1.1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.2.3 | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 4 |
| ER.1.3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.3.2 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 4 |
| ER.1.3.3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ER.1.3.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.3.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.3.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ER.1.4.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.4 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| ER.1.4.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.1.4.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.1.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Extended Indicator | Reading | Writing | Speaking | Listening | Viewing | Research | Missing | Total |
|--------------------|---------|---------|----------|-----------|---------|----------|---------|-------|
| ER.2.2.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ER.2.2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 0 | 3 | 12 | 7 | 0 | 0 | 25 |
| % of Total | 12.0 | 0.0 | 12.0 | 48.0 | 28.0 | 0.0 | 0.0 | 100 |

Table A3

Reviewer Ratings for Primary National Math Standard Links

| Extended Indicator | Number & Operations | Algebra | Geometry | Measurement | Data Analysis & Probability | Problem Solving | Reasoning & Proof | Communication | Connections | Representation | Total |
|--------------------|---------------------|---------|----------|-------------|-----------------------------|-----------------|-------------------|---------------|-------------|----------------|-------|
| EM.1.1.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 6 |
| EM.1.1.9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 |
| EM.1.1.11 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.12 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.13 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

| Extended Indicator | Number & Operations | Algebra | Geometry | Measurement | Data Analysis & Probability | Problem Solving | Reasoning & Proof | Communication | Connections | Representation | Total |
|--------------------|---------------------|---------|----------|-------------|-----------------------------|-----------------|-------------------|---------------|-------------|----------------|-------|
| EM.1.4.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.8 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.1.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.1.3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.1.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.2.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.2.2 | 1 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.2.3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.2.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.3.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.3.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.3.3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.3.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.4.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.2.4.2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| EM.2.4.3 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 6 |
| EM.3.1.1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.1.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.1.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.1.4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.1.5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.2.1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.2.2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.2.3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.2.4 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |

| Extended Indicator | Number & Operations | Algebra | Geometry | Measurement | Data Analysis & Probability | Problem Solving | Reasoning & Proof | Communication | Connections | Representation | Total |
|--------------------|---------------------|---------|----------|-------------|-----------------------------|-----------------|-------------------|---------------|-------------|----------------|-------|
| EM.3.2.5 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.3.1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.3.2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 6 |
| EM.3.3.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.3.3.4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 3 | 1 | 0 | 6 |
| EM.3.3.5 | 0 | 0 | 3 | 0 | 0 | 1 | 0 | 0 | 2 | 0 | 6 |
| EM.3.3.6 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 6 |
| EM.4.1.1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.1.2 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.1.3 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.2.1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.2.2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 6 |
| EM.4.2.3 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.2.4 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 6 |
| EM.4.2.5 | 0 | 0 | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 6 |
| EM.4.2.6 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 6 |
| Total | 178 | 87 | 52 | 30 | 44 | 1 | 4 | 3 | 11 | 10 | 420 |
| % of Total | 42.4 | 20.7 | 12.4 | 7.1 | 10.5 | 0.2 | 1.0 | 0.7 | 2.6 | 2.4 | 100 |

Table A4

Reviewer Ratings for Secondary National Math Standard Links

| Extended Indicator | Number & Operations | Algebra | Geometry | Measurement | Data Analysis & Probability | Problem Solving | Reasoning & Proof | Communication | Connections | Representation | Total |
|--------------------|---------------------|---------|----------|-------------|-----------------------------|-----------------|-------------------|---------------|-------------|----------------|-------|
| EM.1.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 4 |
| EM.1.1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.1.8 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 6 |
| EM.1.1.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| EM.1.1.11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| EM.1.1.12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.1.1.13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.1.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| EM.1.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.1.2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| EM.1.3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| EM.1.3.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| EM.1.3.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 5 |
| EM.1.3.4 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 5 |
| EM.1.4.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.4.7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.8 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 5 |
| EM.1.4.9 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.2.4.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.2.4.2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 |
| EM.2.4.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| EM.3.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| EM.3.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| EM.3.2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |

| Extended Indicator | Number & Operations | Algebra | Geometry | Measurement | Data Analysis & Probability | Problem Solving | Reasoning & Proof | Communication | Connections | Representation | Total |
|--------------------|---------------------|---------|----------|-------------|-----------------------------|-----------------|-------------------|---------------|-------------|----------------|-------|
| EM.3.3.2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 |
| EM.3.3.4 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 5 |
| EM.3.3.5 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 4 |
| EM.3.3.6 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| EM.4.2.2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 |
| EM.4.2.4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 4 |
| EM.4.2.5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| Total | 1 | 1 | 7 | 0 | 3 | 17 | 8 | 2 | 59 | 42 | 140 |
| % of Total | 0.7 | 0.7 | 5.0 | 0.0 | 2.1 | 12.1 | 5.7 | 1.4 | 42.1 | 30.0 | 100 |

Table A5

Reviewer Ratings for Primary National Science Standard Links

| Extended Indicator | Science as Inquiry | Physical Science | Life Science | Earth & Space Science | Science & Technology | Science in Personal & Social Perspectives | History & Nature of Science | Missing | Total |
|--------------------|--------------------|------------------|--------------|-----------------------|----------------------|---|-----------------------------|---------|-------|
| ES.1.1.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.3 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.4 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.5 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.7 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| ES.1.2.1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.2.2 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.6 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.2.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.2.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.3.1.1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.3.1.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.3.2.1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 |
| ES.3.2.2 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 |
| ES.3.2.3 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 |
| ES.3.2.4 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 |
| ES.3.3.1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 1 | 5 |
| ES.3.4.1 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 5 |

| Extended Indicator | Science as Inquiry | Physical Science | Life Science | Earth & Space Science | Science & Technology | Science in Personal & Social Perspectives | History & Nature of Science | Missing | Total |
|--------------------|--------------------|------------------|--------------|-----------------------|----------------------|---|-----------------------------|---------|-------|
| ES.3.4.2 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 5 |
| ES.4.1.1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.4.1.2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 2 |
| ES.4.2.1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.4.2.2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.4.2.3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.4.3.1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.4.3.2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.5.1.1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.5.1.2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.5.1.3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 2 |
| ES.5.2.1 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.6.1.1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.6.1.2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.6.2.1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.6.3.1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.7.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| ES.7.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| Total | 50 | 48 | 39 | 20 | 11 | 20 | 6 | 9 | 194 |
| % of Total | 25.8 | 24.7 | 20.1 | 10.3 | 5.7 | 10.3 | 3.1 | 4.6 | 100 |

Table A6

Reviewer Ratings for Secondary National Science Standard Links

| Extended Indicator | Science as Inquiry | Physical Science | Life Science | Earth & Space Science | Science & Technology | Science in Personal & Social Perspectives | History & Nature of Science | Missing | Total |
|--------------------|--------------------|------------------|--------------|-----------------------|----------------------|---|-----------------------------|---------|-------|
| ES.1.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.1.4 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 5 | 6 |
| ES.1.1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.1.7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 |
| ES.1.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.1.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.2.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.2.4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| ES.3.4.1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 6 |

| Extended Indicator | Science as Inquiry | Physical Science | Life Science | Earth & Space Science | Science & Technology | Science in Personal & Social Perspectives | History & Nature of Science | Missing | Total |
|--------------------|--------------------|------------------|--------------|-----------------------|----------------------|---|-----------------------------|---------|-------|
| ES.3.4.2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 6 |
| ES.4.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.2.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.2.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.4.3.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.5.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.5.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.5.1.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.5.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.6.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.6.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.6.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.6.3.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.7.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| ES.7.1.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 6 |
| Total | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 198 | 254 |
| % of Total | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 78.0 | 2.0 |

Appendix B

Table B1

Reviewer Ratings for Fidelity with Grade Level Content by Reading Extended Indicator

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|----------------------|-------------|---------|-------------|
| | | | | | | Mismatch | Overstretch | Backmap | Nonspecific |
| ER.1.1.1 | 7 | 31 | 11 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.1.2 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.1.3 | 7 | 13 | 28 | 1 | 42 | 0 | 0 | 0 | 1 |
| ER.1.1.4 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.1.5 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.2.1 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.2.2 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.2.3 | 7 | 0 | 0 | 42 | 42 | 42 | 0 | 0 | 0 |
| ER.1.3.1 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.3.2 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.3.3 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.3.4 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.3.5 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.3.6 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.1 | 7 | 40 | 2 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.2 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.3 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.4 | 4 | 20 | 4 | 0 | 24 | 0 | 0 | 0 | 0 |
| ER.1.4.5 | 4 | 24 | 0 | 0 | 24 | 0 | 0 | 0 | 0 |
| ER.1.4.6 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.7 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|----------------------|-------------|---------|-------------|
| | | | | | | Mismatch | Overstretch | Backmap | Nonspecific |
| ER.1.4.8 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.9 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.10 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.11 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.1.4.12 | 4 | 22 | 2 | 0 | 24 | 0 | 0 | 0 | 0 |
| ER.1.4.13 | 10 | 38 | 22 | 0 | 60 | 0 | 0 | 0 | 0 |
| ER.1.4.14 | 6 | 33 | 3 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.1.1 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.2.1.2 | 6 | 36 | 0 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.1.3 | 7 | 42 | 0 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.2.1.4 | 7 | 24 | 18 | 0 | 42 | 0 | 0 | 0 | 0 |
| ER.2.1.5 | 6 | 30 | 6 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.1.6 | 6 | 30 | 6 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.1.7 | 6 | 30 | 6 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.1.8 | 6 | 0 | 33 | 3 | 36 | 0 | 0 | 0 | 3 |
| ER.2.2.1 | 8 | 48 | 0 | 0 | 48 | 0 | 0 | 0 | 0 |
| ER.2.2.2 | 8 | 42 | 6 | 0 | 48 | 0 | 0 | 0 | 0 |
| ER.2.2.4 | 6 | 30 | 6 | 0 | 36 | 0 | 0 | 0 | 0 |
| ER.2.2.5 | 6 | 9 | 22 | 5 | 36 | 0 | 5 | 0 | 0 |
| Total | 268 | 1382 | 175 | 51 | 1608 | 42 | 5 | 0 | 4 |
| % of Total | | 85.9 | 10.9 | 3.2 | 100 | | | | |

Table B2

Reviewer Ratings for Fidelity with Grade Level Content by Math Extended Indicator

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | # of Group Members | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|--------------------|----------------------|-------------|---------|--------------|
| | | | | | | | Mismatch | Overstretch | Backmap | Non-specific |
| EM.1.1.1 | 10 | 12 | 18 | 30 | 60 | 6 | 17 | 15 | 0 | 0 |
| EM.1.1.2 | 2 | 12 | 0 | 0 | 12 | 6 | 0 | 0 | 0 | 0 |
| EM.1.1.3 | 9 | 18 | 24 | 12 | 54 | 6 | 0 | 12 | 0 | 0 |
| EM.1.1.4 | 6 | 18 | 0 | 18 | 36 | 6 | 0 | 18 | 0 | 0 |
| EM.1.1.5 | 15 | 38 | 34 | 18 | 90 | 6 | 18 | 0 | 0 | 0 |
| EM.1.1.6 | 18 | 30 | 54 | 24 | 108 | 6 | 24 | 0 | 0 | 0 |
| EM.1.1.7 | 31 | 18 | 15 | 60 | 93 | 3 | 39 | 21 | 0 | 0 |
| EM.1.1.8 | 11 | 12 | 3 | 18 | 33 | 3 | 18 | 0 | 0 | 0 |
| EM. 1.1.9 | 7 | 0 | 11 | 10 | 21 | 3 | 0 | 15 | 0 | 0 |
| EM.1.1.11 | 8 | 12 | 9 | 3 | 24 | 3 | 3 | 0 | 0 | 0 |
| EM.1.1.12 | 21 | 12 | 27 | 24 | 63 | 3 | 12 | 12 | 0 | 0 |
| EM.1.1.13 | 18 | 21 | 6 | 27 | 54 | 3 | 27 | 0 | 0 | 0 |
| EM.1.2.1 | 9 | 0 | 6 | 21 | 27 | 3 | 12 | 9 | 0 | 0 |
| EM.1.2.2 | 14 | 9 | 24 | 9 | 42 | 3 | 3 | 6 | 0 | 0 |
| EM.1.2.3 | 17 | 9 | 9 | 33 | 51 | 3 | 33 | 0 | 0 | 0 |
| EM.1.2.4 | 5 | 9 | 0 | 6 | 15 | 3 | 6 | 0 | 0 | 0 |
| EM.1.2.5 | 26 | 3 | 6 | 69 | 78 | 3 | 44 | 25 | 0 | 0 |
| EM.1.3.1 | 4 | 18 | 6 | 0 | 24 | 6 | 0 | 0 | 0 | 0 |
| EM.1.3.2 | 4 | 18 | 0 | 6 | 24 | 6 | 3 | 3 | 0 | 0 |
| EM.1.3.3 | 6 | 7 | 11 | 0 | 18 | 3 | 0 | 0 | 0 | 0 |
| EM.1.3.4 | 4 | 12 | 0 | 0 | 12 | 3 | 0 | 0 | 0 | 0 |
| EM.1.4.1 | 24 | 15 | 42 | 15 | 72 | 3 | 3 | 12 | 0 | 0 |
| EM.1.4.2 | 13 | 9 | 24 | 6 | 39 | 3 | 6 | 0 | 0 | 0 |
| EM.1.4.3 | 21 | 30 | 33 | 0 | 63 | 3 | 0 | 0 | 0 | 0 |

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | # of Group Members | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|--------------------|----------------------|-------------|---------|--------------|
| | | | | | | | Mismatch | Overstretch | Backmap | Non-specific |
| EM.1.4.4 | 11 | 6 | 6 | 21 | 33 | 3 | 21 | 6 | 0 | 0 |
| EM.1.4.5 | 33 | 24 | 49 | 26 | 99 | 3 | 26 | 3 | 0 | 0 |
| EM.1.4.6 | 42 | 78 | 48 | 0 | 126 | 3 | 0 | 0 | 0 | 0 |
| EM.1.4.7 | 40 | 45 | 48 | 27 | 120 | 3 | 21 | 6 | 0 | 0 |
| EM.1.4.8 | 13 | 6 | 54 | 18 | 78 | 6 | 6 | 12 | 0 | 0 |
| EM.1.4.9 | 16 | 36 | 19 | 41 | 96 | 6 | 0 | 41 | 0 | 0 |
| EM.2.1.1 | 9 | 12 | 12 | 30 | 54 | 6 | 0 | 30 | 0 | 0 |
| EM.2.1.2 | 5 | 6 | 18 | 6 | 30 | 6 | 0 | 6 | 0 | 0 |
| EM.2.1.3 | 7 | 0 | 23 | 19 | 42 | 6 | 6 | 13 | 0 | 0 |
| EM.2.1.4 | 4 | 6 | 12 | 6 | 24 | 6 | 0 | 6 | 0 | 0 |
| EM.2.2.1 | 14 | 0 | 18 | 66 | 84 | 6 | 42 | 24 | 0 | 0 |
| EM.2.2.2 | 12 | 0 | 17 | 55 | 72 | 6 | 0 | 55 | 0 | 0 |
| EM.2.2.3 | 12 | 28 | 26 | 18 | 72 | 6 | 6 | 12 | 0 | 0 |
| EM.2.2.4 | 7 | 3 | 9 | 9 | 21 | 3 | 0 | 9 | 0 | 0 |
| EM.2.3.1 | 7 | 3 | 8 | 10 | 21 | 3 | 0 | 9 | 0 | 0 |
| EM.2.3.2 | 4 | 3 | 0 | 9 | 12 | 3 | 6 | 3 | 0 | 0 |
| EM.2.3.3 | 6 | 0 | 9 | 9 | 18 | 3 | 0 | 9 | 0 | 0 |
| EM.2.3.4 | 9 | 3 | 15 | 9 | 27 | 3 | 6 | 3 | 0 | 0 |
| EM.2.4.1 | 4 | 0 | 3 | 9 | 12 | 3 | 3 | 6 | 0 | 0 |
| EM.2.4.2 | 4 | 0 | 0 | 12 | 12 | 3 | 12 | 0 | 0 | 0 |
| EM.2.4.3 | 7 | 0 | 9 | 12 | 21 | 3 | 0 | 12 | 0 | 0 |
| EM.3.1.1 | 8 | 5 | 7 | 12 | 24 | 3 | 13 | 0 | 0 | 0 |
| EM.3.1.2 | 8 | 9 | 15 | 0 | 24 | 3 | 0 | 0 | 0 | 0 |
| EM.3.1.3 | 7 | 6 | 9 | 6 | 21 | 3 | 0 | 6 | 0 | 0 |
| EM.3.1.4 | 14 | 9 | 6 | 27 | 42 | 3 | 27 | 0 | 0 | 0 |
| EM.3.1.5 | 8 | 6 | 6 | 12 | 24 | 3 | 9 | 3 | 0 | 0 |
| EM.3.2.1 | 22 | 12 | 35 | 19 | 66 | 3 | 0 | 19 | 0 | 0 |
| EM.3.2.2 | 2 | 3 | 3 | 0 | 6 | 3 | 0 | 0 | 0 | 0 |

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | # of Group Members | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|--------------------|----------------------|-------------|---------|--------------|
| | | | | | | | Mismatch | Overstretch | Backmap | Non-specific |
| EM.3.2.3 | 2 | 0 | 6 | 0 | 6 | 3 | 0 | 0 | 0 | 0 |
| EM.3.2.4 | 19 | 3 | 18 | 36 | 57 | 3 | 0 | 36 | 0 | 0 |
| EM.3.2.5 | 19 | 3 | 0 | 54 | 57 | 3 | 54 | 0 | 0 | 0 |
| EM.3.3.1 | 13 | 9 | 18 | 12 | 39 | 3 | 6 | 6 | 0 | 0 |
| EM.3.3.2 | 5 | 3 | 6 | 6 | 15 | 3 | 0 | 6 | 0 | 0 |
| EM.3.3.3 | 5 | 6 | 3 | 6 | 15 | 3 | 6 | 0 | 0 | 0 |
| EM.3.3.4 | 7 | 0 | 12 | 9 | 21 | 3 | 9 | 0 | 0 | 0 |
| EM.3.3.5 | 8 | 6 | 6 | 12 | 24 | 3 | 12 | 0 | 0 | 0 |
| EM.3.3.6 | 8 | 3 | 9 | 12 | 24 | 3 | 12 | 0 | 0 | 0 |
| EM.4.1.1 | 7 | 12 | 18 | 12 | 42 | 6 | 6 | 6 | 0 | 0 |
| EM.4.1.2 | 7 | 12 | 17 | 13 | 42 | 6 | 6 | 6 | 0 | 0 |
| EM.4.1.3 | 4 | 0 | 18 | 6 | 24 | 6 | 6 | 0 | 0 | 0 |
| EM.4.2.1 | 14 | 12 | 12 | 18 | 42 | 3 | 11 | 7 | 0 | 0 |
| EM.4.2.2 | 14 | 11 | 11 | 20 | 42 | 3 | 19 | 1 | 0 | 0 |
| EM.4.2.3 | 15 | 18 | 12 | 12 | 42 | 3 | 0 | 12 | 0 | 0 |
| EM.4.2.4 | 7 | 0 | 12 | 9 | 21 | 3 | 0 | 9 | 0 | 0 |
| EM.4.2.5 | 5 | 0 | 4 | 10 | 14 | 3 | 10 | 1 | 0 | 0 |
| EM.4.2.6 | 13 | 24 | 15 | 0 | 39 | 3 | 0 | 0 | 0 | 0 |
| Total | 810 | 773 | 1043 | 1144 | 2960 | | 629 | 531 | 0 | 0 |
| % of Total | | 26.1 | 35.2 | 38.6 | 100 | | | | | |

Table B3

Reviewer Ratings for Fidelity with Grade Level Content by Science Extended Indicator

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|----------------------|-------------|---------|-------------|
| | | | | | | Mismatch | Overstretch | Backmap | Nonspecific |
| ES.1.1.1 | 6 | 0 | 30 | 6 | 36 | 0 | 6 | 0 | 0 |
| ES.1.1.2 | 5 | 0 | 10 | 19 | 29 | 12 | 6 | 0 | 0 |
| ES.1.1.3 | 3 | 0 | 11 | 7 | 18 | 5 | 0 | 0 | 0 |
| ES.1.1.4 | 4 | 12 | 6 | 6 | 24 | 6 | 0 | 0 | 0 |
| ES.1.1.5 | 6 | 6 | 24 | 6 | 36 | 6 | 0 | 0 | 0 |
| ES.1.1.6 | 5 | 6 | 18 | 6 | 30 | 0 | 6 | 0 | 0 |
| ES.1.1.7 | 1 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| ES.1.2.1 | 5 | 0 | 18 | 12 | 30 | 12 | 0 | 0 | 0 |
| ES.1.2.2 | 7 | 18 | 24 | 0 | 42 | 0 | 0 | 0 | 0 |
| ES.2.1.1 | 5 | 0 | 30 | 0 | 30 | 0 | 0 | 0 | 0 |
| ES.2.1.2 | 3 | 6 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| ES.2.1.3 | 4 | 12 | 12 | 0 | 24 | 0 | 0 | 0 | 0 |
| ES.2.1.4 | 2 | 0 | 6 | 6 | 12 | 0 | 6 | 0 | 0 |
| ES.2.1.5 | 4 | 6 | 6 | 12 | 24 | 12 | 0 | 0 | 10 |
| ES.2.1.6 | 7 | 6 | 12 | 24 | 42 | 12 | 13 | 0 | 4 |
| ES.2.2.1 | 3 | 6 | 6 | 6 | 18 | 6 | 0 | 0 | 0 |
| ES.2.2.2 | 5 | 18 | 12 | 0 | 30 | 0 | 0 | 0 | 0 |
| ES.3.1.1 | 12 | 0 | 42 | 30 | 72 | 28 | 0 | 0 | 0 |
| ES.3.1.2 | 5 | 0 | 18 | 12 | 30 | 11 | 0 | 0 | 0 |
| ES.3.2.1 | 8 | 18 | 24 | 6 | 48 | 6 | 0 | 0 | 0 |
| ES.3.2.2 | 4 | 6 | 18 | 0 | 24 | 0 | 0 | 0 | 0 |
| ES.3.2.3 | 12 | 24 | 42 | 6 | 72 | 0 | 6 | 0 | 0 |
| ES.3.2.4 | 4 | 12 | 6 | 6 | 24 | 6 | 0 | 0 | 0 |
| ES.3.3.1 | 6 | 6 | 24 | 6 | 36 | 1 | 5 | 0 | 0 |
| ES.3.4.1 | 7 | 18 | 6 | 18 | 42 | 17 | 0 | 0 | 0 |

| Extended Indicator | # of Linked General Indicators | Near Link | Far Link | No Link | Total | Reason for "No Link" | | | |
|--------------------|--------------------------------|-----------|----------|---------|-------|----------------------|-------------|---------|-------------|
| | | | | | | Mismatch | Overstretch | Backmap | Nonspecific |
| ES.3.4.2 | 3 | 12 | 6 | 0 | 18 | 0 | 0 | 0 | 0 |
| ES.4.1.1 | 3 | 12 | 6 | 0 | 18 | 0 | 0 | 0 | 0 |
| ES.4.1.2 | 5 | 18 | 12 | 0 | 30 | 0 | 0 | 0 | 0 |
| ES.4.2.1 | 3 | 6 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| ES.4.2.2 | 4 | 18 | 6 | 0 | 24 | 0 | 0 | 0 | 0 |
| ES.4.2.3 | 6 | 18 | 18 | 0 | 36 | 0 | 0 | 0 | 0 |
| ES.4.3.1 | 5 | 12 | 18 | 0 | 30 | 0 | 0 | 0 | 0 |
| ES.4.3.2 | 3 | 0 | 12 | 6 | 18 | 0 | 6 | 0 | 0 |
| ES.5.1.1 | 2 | 0 | 6 | 6 | 12 | 0 | 6 | 0 | 0 |
| ES.5.1.2 | 2 | 6 | 6 | 0 | 12 | 0 | 0 | 0 | 0 |
| ES.5.1.3 | 2 | 6 | 5 | 1 | 12 | 0 | 1 | 0 | 0 |
| ES.5.2.1 | 3 | 6 | 12 | 0 | 18 | 0 | 0 | 0 | 0 |
| ES.6.1.1 | 1 | 4 | 2 | 0 | 6 | 0 | 0 | 0 | 0 |
| ES.6.1.2 | 2 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 |
| ES.6.2.1 | 2 | 6 | 6 | 0 | 12 | 0 | 0 | 0 | 0 |
| ES.6.3.1 | 1 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| ES.7.1.1 | 1 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 |
| ES.7.1.2 | 1 | 5 | 1 | 0 | 6 | 0 | 0 | 0 | 0 |
| Total | 182 | 338 | 546 | 207 | 1091 | 140 | 61 | 0 | 14 |
| % of Total | | 31.0 | 50.0 | 19.0 | 100.0 | | | | |

Appendix C

Table C1

Reviewer Ratings for Fidelity with Grade Level Performance by Reading Extended

Indicator

| Extended Indicator | All | Some | None | Total |
|--------------------|-----|------|------|-------|
| ER.1.1.1 | 41 | 1 | 0 | 42 |
| ER.1.1.2 | 42 | 0 | 0 | 42 |
| ER.1.1.3 | 0 | 41 | 1 | 42 |
| ER.1.1.4 | 0 | 42 | 0 | 42 |
| ER.1.1.5 | 42 | 0 | 0 | 42 |
| ER.1.2.1 | 42 | 0 | 0 | 42 |
| ER.1.2.2 | 42 | 0 | 0 | 42 |
| ER.1.2.3 | 0 | 0 | 42 | 42 |
| ER.1.3.1 | 42 | 0 | 0 | 42 |
| ER.1.3.2 | 42 | 0 | 0 | 42 |
| ER.1.3.3 | 42 | 0 | 0 | 42 |
| ER.1.3.4 | 42 | 0 | 0 | 42 |
| ER.1.3.5 | 42 | 0 | 0 | 42 |
| ER.1.3.6 | 42 | 0 | 0 | 42 |
| ER.1.4.1 | 42 | 0 | 0 | 42 |
| ER.1.4.2 | 42 | 0 | 0 | 42 |
| ER.1.4.3 | 0 | 42 | 0 | 42 |
| ER.1.4.4 | 24 | 0 | 0 | 24 |
| ER.1.4.5 | 19 | 5 | 0 | 24 |
| ER.1.4.6 | 41 | 1 | 0 | 42 |
| ER.1.4.7 | 41 | 1 | 0 | 42 |
| ER.1.4.8 | 42 | 0 | 0 | 42 |
| ER.1.4.9 | 0 | 42 | 0 | 42 |
| ER.1.4.10 | 39 | 3 | 0 | 42 |
| ER.1.4.11 | 22 | 20 | 0 | 42 |
| ER.1.4.12 | 22 | 2 | 0 | 24 |
| ER.1.4.13 | 20 | 40 | 0 | 60 |
| ER.1.4.14 | 18 | 18 | 0 | 36 |
| ER.2.1.1 | 42 | 0 | 0 | 42 |
| ER.2.1.2 | 36 | 0 | 0 | 36 |
| ER.2.1.3 | 42 | 0 | 0 | 42 |
| ER.2.1.4 | 26 | 16 | 0 | 42 |
| ER.2.1.5 | 33 | 3 | 0 | 36 |
| ER.2.1.6 | 35 | 1 | 0 | 36 |

| Extended Indicator | All | Some | None | Total |
|--------------------|------|------|------|-------|
| ER.2.1.7 | 34 | 2 | 0 | 36 |
| ER.2.1.8 | 0 | 30 | 6 | 36 |
| ER.2.2.1 | 48 | 0 | 0 | 48 |
| ER.2.2.2 | 46 | 2 | 0 | 48 |
| ER.2.2.4 | 27 | 9 | 0 | 36 |
| ER.2.2.5 | 5 | 30 | 1 | 36 |
| Total | 1207 | 351 | 50 | 1608 |
| % of Total | 75.1 | 21.8 | 3.1 | 100 |

Table C2

*Reviewer Ratings for Fidelity with Grade Level Performance by Math Extended**Indicator*

| Extended Indicator | All | Some | None | Total |
|--------------------|-----|------|------|-------|
| EM.1.1.1 | 12 | 23 | 25 | 60 |
| EM.1.1.2 | 6 | 6 | 0 | 12 |
| EM.1.1.3 | 12 | 30 | 12 | 54 |
| EM.1.1.4 | 12 | 6 | 18 | 36 |
| EM.1.1.5 | 24 | 24 | 42 | 90 |
| EM.1.1.6 | 42 | 0 | 66 | 108 |
| EM.1.1.7 | 15 | 18 | 60 | 93 |
| EM.1.1.8 | 12 | 0 | 21 | 33 |
| EM. 1.1.9 | 0 | 21 | 0 | 21 |
| EM.1.1.11 | 21 | 0 | 3 | 24 |
| EM.1.1.12 | 33 | 15 | 15 | 63 |
| EM.1.1.13 | 12 | 21 | 21 | 54 |
| EM.1.2.1 | 0 | 6 | 21 | 27 |
| EM.1.2.2 | 21 | 12 | 9 | 42 |
| EM.1.2.3 | 12 | 6 | 33 | 51 |
| EM.1.2.4 | 9 | 0 | 6 | 15 |
| EM.1.2.5 | 3 | 6 | 69 | 78 |
| EM.1.3.1 | 19 | 5 | 0 | 24 |
| EM.1.3.2 | 15 | 3 | 6 | 24 |
| EM.1.3.3 | 18 | 0 | 0 | 18 |
| EM.1.3.4 | 12 | 0 | 0 | 12 |
| EM.1.4.1 | 12 | 45 | 15 | 72 |
| EM.1.4.2 | 3 | 15 | 21 | 39 |
| EM.1.4.3 | 15 | 48 | 0 | 63 |
| EM.1.4.4 | 3 | 3 | 27 | 33 |
| EM.1.4.5 | 21 | 24 | 54 | 99 |
| EM.1.4.6 | 57 | 63 | 6 | 126 |
| EM.1.4.7 | 10 | 59 | 51 | 120 |
| EM.1.4.8 | 6 | 36 | 36 | 78 |
| EM.1.4.9 | 6 | 49 | 41 | 96 |
| EM.2.1.1 | 12 | 12 | 30 | 54 |
| EM.2.1.2 | 6 | 18 | 6 | 30 |
| EM.2.1.3 | 0 | 11 | 31 | 42 |
| EM.2.1.4 | 6 | 6 | 12 | 24 |
| EM.2.2.1 | 0 | 0 | 84 | 84 |
| EM.2.2.2 | 0 | 0 | 72 | 72 |
| EM 2.2.3 | 0 | 24 | 48 | 72 |

| Extended Indicator | All | Some | None | Total |
|--------------------|------|------|------|-------|
| EM.2.2.4 | 0 | 9 | 12 | 21 |
| EM.2.3.1 | 0 | 9 | 12 | 21 |
| EM.2.3.2 | 0 | 3 | 9 | 12 |
| EM.2.3.3 | 0 | 6 | 12 | 18 |
| EM.2.3.4 | 0 | 9 | 18 | 27 |
| EM.2.4.1 | 0 | 3 | 9 | 12 |
| EM.2.4.2 | 0 | 0 | 12 | 12 |
| EM.2.4.3 | 0 | 6 | 15 | 21 |
| EM.3.1.1 | 3 | 9 | 12 | 21 |
| EM.3.1.2 | 6 | 12 | 6 | 18 |
| EM.3.1.3 | 3 | 11 | 6 | 20 |
| EM.3.1.4 | 6 | 9 | 27 | 42 |
| EM.3.1.5 | 6 | 6 | 12 | 24 |
| EM.3.2.1 | 9 | 21 | 36 | 66 |
| EM.3.2.2 | 3 | 3 | 0 | 6 |
| EM.3.2.3 | 0 | 6 | 0 | 6 |
| EM.3.2.4 | 0 | 6 | 51 | 57 |
| EM.3.2.5 | 0 | 3 | 54 | 57 |
| EM.3.3.1 | 3 | 12 | 24 | 39 |
| EM.3.3.2 | 0 | 6 | 9 | 15 |
| EM.3.3.3 | 0 | 9 | 6 | 15 |
| EM.3.3.4 | 0 | 3 | 18 | 21 |
| EM.3.3.5 | 0 | 6 | 18 | 24 |
| EM.3.3.6 | 3 | 0 | 21 | 24 |
| EM.4.1.1 | 6 | 12 | 24 | 42 |
| EM.4.1.2 | 6 | 13 | 23 | 42 |
| EM.4.1.3 | 0 | 6 | 18 | 24 |
| EM.4.2.1 | 12 | 3 | 27 | 42 |
| EM.4.2.2 | 3 | 18 | 21 | 42 |
| EM.4.2.3 | 6 | 15 | 21 | 42 |
| EM.4.2.4 | 0 | 3 | 16 | 19 |
| EM.4.2.5 | 0 | 4 | 11 | 15 |
| EM.4.2.6 | 9 | 15 | 15 | 39 |
| Total | 551 | 871 | 1536 | 2949 |
| % of Total | 18.7 | 29.5 | 52.1 | 100 |

Table C3

*Reviewer Ratings for Fidelity with Grade Level Performance by Science Extended**Indicator*

| Extended Indicator | All | Some | None | Total |
|--------------------|-----|------|------|-------|
| ES.1.1.1 | 0 | 30 | 6 | 36 |
| ES.1.1.2 | 0 | 6 | 24 | 30 |
| ES.1.1.3 | 0 | 11 | 7 | 18 |
| ES.1.1.4 | 6 | 12 | 6 | 18 |
| ES.1.1.5 | 6 | 24 | 6 | 30 |
| ES.1.1.6 | 6 | 18 | 6 | 24 |
| ES.1.1.7 | 6 | 0 | 0 | 0 |
| ES.1.2.1 | 0 | 18 | 12 | 30 |
| ES.1.2.2 | 18 | 24 | 0 | 24 |
| ES.2.1.1 | 0 | 24 | 6 | 30 |
| ES.2.1.2 | 6 | 6 | 6 | 12 |
| ES.2.1.3 | 6 | 6 | 12 | 18 |
| ES.2.1.4 | 0 | 6 | 6 | 12 |
| ES.2.1.5 | 6 | 6 | 12 | 18 |
| ES.2.1.6 | 6 | 0 | 36 | 36 |
| ES.2.2.1 | 6 | 0 | 12 | 12 |
| ES.2.2.2 | 18 | 12 | 0 | 12 |
| ES.3.1.1 | 0 | 12 | 60 | 72 |
| ES.3.1.2 | 0 | 18 | 12 | 30 |
| ES.3.2.1 | 17 | 7 | 24 | 31 |
| ES.3.2.2 | 6 | 12 | 6 | 18 |
| ES.3.2.3 | 12 | 42 | 17 | 59 |
| ES.3.2.4 | 6 | 12 | 6 | 18 |
| ES.3.3.1 | 0 | 24 | 12 | 36 |
| ES.3.4.1 | 1 | 17 | 24 | 41 |
| ES.3.4.2 | 6 | 6 | 6 | 12 |
| ES.4.1.1 | 12 | 6 | 0 | 6 |
| ES.4.1.2 | 12 | 12 | 6 | 18 |
| ES.4.2.1 | 0 | 6 | 12 | 18 |
| ES.4.2.2 | 6 | 18 | 0 | 18 |
| ES.4.2.3 | 0 | 24 | 12 | 36 |
| ES.4.3.1 | 6 | 12 | 12 | 24 |
| ES.4.3.2 | 0 | 0 | 18 | 18 |
| ES.5.1.1 | 0 | 0 | 12 | 12 |
| ES.5.1.2 | 6 | 6 | 0 | 6 |
| ES.5.1.3 | 0 | 6 | 6 | 12 |
| ES.5.2.1 | 6 | 12 | 0 | 12 |

| Extended Indicator | All | Some | None | Total |
|--------------------|------|------|------|-------|
| ES.6.1.1 | 0 | 6 | 0 | 6 |
| ES.6.1.2 | 12 | 0 | 0 | 0 |
| ES.6.2.1 | 6 | 1 | 5 | 6 |
| ES.6.3.1 | 0 | 6 | 0 | 6 |
| ES.7.1.1 | 0 | 6 | 0 | 6 |
| ES.7.1.2 | 0 | 6 | 0 | 6 |
| Total | 204 | 480 | 407 | 887 |
| % of Total | 23.0 | 54.1 | 45.9 | 100 |

Appendix D

Table D1

Reviewer Ratings for Depth of Knowledge by Extended Indicator

| Extended Indicator | Attention | Memorize/ Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Total |
|--------------------|-----------|------------------|-------------|---------------|-------------|-------------------------------|------------------------|-------|
| ER.1.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.1.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.1.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.1.4 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.1.1.5 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.1.2.1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.2.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.2.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.3 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.3.6 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ER.1.4.1 | 0 | 0 | 0 | 1 | 5 | 0 | 0 | 6 |
| ER.1.4.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ER.1.4.5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.8 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.9 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |

| Extended Indicator | Attention | Memorize/Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/Too Vague | Total |
|--------------------|-----------|-----------------|-------------|---------------|-------------|-------------------------------|-----------------------|-------|
| ER.1.4.10 | 0 | 0 | 0 | 1 | 0 | 5 | 0 | 6 |
| ER.1.4.11 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 6 |
| ER.1.4.12 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.1.4.13 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.1.4.14 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ER.2.1.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ER.2.1.4 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.1.8 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.2.2.1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ER.2.2.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.2.3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ER.2.2.4 | 0 | 3 | 0 | 0 | 0 | 3 | 0 | 6 |
| ER.2.2.5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| Total | 0 | 51 | 42 | 25 | 35 | 93 | 0 | 246 |
| % of Total | 0.0 | 20.7 | 17.1 | 10.2 | 14.2 | 37.8 | 0.0 | 100 |

Table D2

Reviewer Ratings for Depth of Knowledge by Math Extended Indicator

| Extended Indicator | Attention | Memorize/Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Total |
|--------------------|-----------|-----------------|-------------|---------------|-------------|-------------------------------------|---------------------------|-------|
| EM.1.1.1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.1.2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| EM.1.1.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.4 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.1.1.7 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.1.8 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.9 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.1.11 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| EM.1.1.12 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| EM.1.1.13 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.2.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.2.3 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| EM.1.2.4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| EM.1.2.5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.3.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.3.3 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| EM.1.3.4 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.1.4.1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| EM.1.4.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.3 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.1.4.4 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |

| Extended Indicator | Attention | Memorize/Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Total |
|--------------------|-----------|-----------------|-------------|---------------|-------------|-------------------------------------|---------------------------|-------|
| EM.1.4.5 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.1.4.6 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.1.4.7 | 0 | 0 | 6 | 0 | | 0 | 0 | 6 |
| EM.1.4.8 | 0 | 0 | 6 | 0 | | 0 | 0 | 6 |
| EM.1.4.9 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.1.1 | 0 | 6 | 0 | 0 | | 0 | 0 | 6 |
| EM.2.1.2 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.1.3 | 0 | 0 | 0 | 0 | | 6 | 0 | 6 |
| EM.2.1.4 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.2.1 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.2.2.2 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.2.3 | 0 | 0 | 0 | 0 | | 6 | 0 | 6 |
| EM.2.2.4 | 0 | 0 | 0 | 1 | | 0 | 5 | 6 |
| EM.2.3.1 | 0 | 6 | 0 | 0 | | 0 | 0 | 6 |
| EM.2.3.2 | 0 | 6 | 0 | 0 | | 0 | 0 | 6 |
| EM.2.3.3 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.3.4 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.2.4.1 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.2.4.2 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.2.4.3 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.1.1 | 0 | 6 | 0 | 0 | | 0 | 0 | 6 |
| EM.3.1.2 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.1.3 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.1.4 | 0 | 6 | 0 | 0 | | 0 | 0 | 6 |
| EM.3.1.5 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.2.1 | 0 | 0 | 0 | 0 | | 6 | 0 | 6 |
| EM.3.2.2 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.3.2.3 | 0 | 0 | 0 | 0 | | 6 | 0 | 6 |
| EM.3.2.4 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |

| Extended Indicator | Attention | Memorize/Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Total |
|--------------------|-----------|-----------------|-------------|---------------|-------------|-------------------------------------|---------------------------|-------|
| EM.3.2.5 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.3.1 | 0 | 0 | 0 | 6 | | 0 | 0 | 6 |
| EM.3.3.2 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.3.3 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.3.4 | 0 | 0 | 0 | 0 | | 0 | 6 | 6 |
| EM.3.3.5 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| EM.3.3.6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.4.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| EM.4.1.2 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| EM.4.1.3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.4.2.1 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.4.2.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| EM.4.2.3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| EM.4.2.4 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| EM.4.2.5 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| EM.4.2.6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| Total | 0 | 66 | 66 | 79 | 54 | 131 | 24 | 420 |
| % of Total | 0.0 | 15.7 | 15.7 | 18.8 | 12.9 | 31.2 | 5.7 | 100 |

Table D3

Reviewer Ratings for Depth of Knowledge by Science Extended Indicator

| Extended Indicator | Attention | Memorize/ Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Missing | Total |
|--------------------|-----------|------------------|-------------|---------------|-------------|-------------------------------|------------------------|---------|-------|
| ES.1.1.1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 |
| ES.1.1.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.3 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ES.1.1.4 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ES.1.1.5 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.1.1.6 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.1.1.7 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| ES.1.2.1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.1.2.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.2.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.2 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ES.2.1.3 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.4 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.5 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.2.1.6 | 0 | 0 | 1 | 0 | 5 | 0 | 0 | 0 | 6 |
| ES.2.2.1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.2.2.2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.3.1.1 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.3.1.2 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.3.2.1 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 6 |
| ES.3.2.2 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| ES.3.2.3 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 6 |
| ES.3.2.4 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ES.3.3.1 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 6 |
| ES.3.4.1 | 0 | 0 | 3 | 0 | 1 | 1 | 0 | 1 | 6 |

| Extended Indicator | Attention | Memorize/ Recall | Performance | Comprehension | Application | Analysis Synthesis Evaluation | Can't Score/ Too Vague | Missing | Total |
|--------------------|-----------|------------------|-------------|---------------|-------------|-------------------------------|------------------------|---------|-------|
| ES.3.4.2 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 1 | 5 |
| ES.4.1.1 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 3 |
| ES.4.1.2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.4.2.1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| ES.4.2.2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.4.2.3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 3 |
| ES.4.3.1 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 3 |
| ES.4.3.2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.5.1.1 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 3 |
| ES.5.1.2 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| ES.5.1.3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| ES.5.2.1 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 3 |
| ES.6.1.1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| ES.6.1.2 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.6.2.1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 |
| ES.6.3.1 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| ES.7.1.1 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 3 |
| ES.7.1.2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 0 | 43 | 25 | 31 | 41 | 47 | 11 | 4 | 202 |
| % of Total | 0.0 | 21.3 | 12.4 | 15.3 | 20.3 | 23.3 | 5.4 | 2.0 | 100 |

Appendix E

Table E1

Best Match with Grade-Level Reading Standards

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| ER.1.1.1 | R.3.1.4.11 | 6 | 0 |
| | R.4.1.4.10 | 0 | 6 |
| ER.1.1.2 | R.3.1.4.11 | 6 | 0 |
| | R.4.1.4.10 | 0 | 6 |
| ER.1.1.3 | R.3.1.4.8 | 5 | 0 |
| | R.4.1.4.7 | 0 | 5 |
| ER.1.1.4 | R.4.1.3.4 | 6 | 0 |
| | R.5.1.3.4 | 0 | 6 |
| ER.1.1.5 | R.3.1.3.5 | 6 | 0 |
| | R.4.1.3.4 | 1 | 5 |
| | R.5.1.3.4 | 0 | 1 |
| ER.1.2.1 | R.5.1.4.2 | 6 | 0 |
| | R.6.1.4.2 | 0 | 6 |
| ER.1.2.2 | R.4.1.3.4 | 6 | 0 |
| | R.5.1.3.4 | 0 | 6 |
| ER.1.3.1 | R.3.1.4.5 | 6 | 0 |
| | R.4.1.4.5 | 1 | 5 |
| | R.5.1.4.5 | 0 | 1 |
| ER.1.3.2 | R.3.1.4.5 | 6 | 0 |
| | R.4.1.4.5 | 1 | 5 |
| | R.5.1.4.5 | 0 | 1 |
| ER.1.3.3 | R.3.1.3.2 | 6 | 0 |
| | R.4.1.3.1 | 1 | 5 |
| | R.5.1.3.1 | 0 | 1 |
| ER.1.3.4 | R.4.1.3.4 | 6 | 0 |
| | R.5.1.3.4 | 0 | 6 |
| ER.1.3.5 | R.3.1.3.5 | 6 | 0 |
| | R.4.1.3.4 | 5 | 0 |
| | R.5.1.3.4 | 0 | 6 |
| ER.1.3.6 | R.5.1.3.1 | 5 | 0 |
| | R.6.1.3.1 | 1 | 5 |
| | R.7.1.3.1 | 0 | 1 |
| ER.1.4.1 | R.3.1.4.2 | 5 | 0 |
| | R.4.1.4.2 | 1 | 5 |
| | R.5.1.4.2 | 0 | 1 |
| ER.1.4.2 | R.5.1.4.5 | 6 | 0 |
| | R.6.1.4.5 | 0 | 6 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| ER.1.4.3 | R.3.1.4.2 | 6 | 0 |
| | R.4.1.4.2 | 0 | 6 |
| ER.1.4.4 | R.6.1.4.6 | 6 | 0 |
| | R.7.1.4.6 | 0 | 6 |
| ER.1.4.5 | R.6.1.4.6 | 6 | 0 |
| | R.7.1.4.6 | 0 | 6 |
| ER.1.4.6 | R.5.1.4.8 | 5 | 0 |
| | R.6.1.4.8 | 1 | 5 |
| | R.7.1.4.8 | 0 | 1 |
| ER.1.4.7 | R.3.1.4.8 | 6 | 0 |
| | R.4.1.4.7 | 0 | 6 |
| ER.1.4.8 | R.5.1.4.5 | 5 | 0 |
| | R.6.1.4.5 | 1 | 5 |
| | R.7.1.4.5 | 0 | 1 |
| ER.1.4.9 | R.4.1.4.10 | 4 | 0 |
| | R.5.1.4.10 | 2 | 2 |
| | R.6.1.4.10 | 2 | 2 |
| | R.7.1.4.10 | 0 | 2 |
| ER.1.4.10 | R.6.1.4.10 | 6 | 0 |
| | R.7.1.4.10 | 0 | 6 |
| | R.8.1.4.10 | 0 | 6 |
| ER.1.4.11 | R.5.1.4.9 | 6 | 0 |
| | R.6.1.4.9 | 0 | 6 |
| | R.7.1.4.9 | 0 | 1 |
| ER.1.4.12 | R.6.1.4.14 | 6 | 0 |
| | R.7.1.4.14 | 0 | 6 |
| | R.8.1.4.14 | 0 | 6 |
| ER.1.4.13 | R.7.1.3.4 | 6 | 0 |
| | R.7.1.4.15 | 6 | 0 |
| | R.8.1.3.4 | 0 | 6 |
| | R.8.1.4.15 | 0 | 6 |
| ER.1.4.14 | R.8.1.4.11 | 6 | 0 |
| | R.HS.1.4.11 | 0 | 6 |
| ER.2.1.1 | R.3.2.1.1 | 6 | 0 |
| | R.4.2.1.1 | 0 | 6 |
| | R.3.2.1.1 | 6 | 0 |
| ER.2.1.2 | R.4.2.1.1 | 0 | 6 |
| | R.3.2.1.2 | 5 | 0 |
| ER.2.1.3 | R.4.2.1.2 | 6 | 0 |
| | R.5.2.1.2 | 0 | 6 |
| | R.7.2.1.2 | 6 | 0 |
| ER.2.1.4 | R.8.2.1.2 | 5 | 1 |
| | R.HS.2.1.2 | 0 | 5 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| ER.2.1.5 | R.5.2.1.2 | 6 | 0 |
| | R.7.2.1.2 | 0 | 6 |
| ER.2.1.6 | R.7.2.1.3 | 6 | 0 |
| | R.8.2.1.3 | 4 | 2 |
| | R.HS.2.1.3 | 0 | 4 |
| ER.2.1.7 | R.7.2.1.3 | 6 | 0 |
| | R.8.2.1.3 | 0 | 6 |
| | R.HS.2.1.3 | 0 | 6 |
| ER.2.1.8 | R.4.2.1.3 | 6 | 0 |
| | R.5.2.1.3 | 0 | 6 |
| ER.2.2.1 | R.5.2.1.1 | 5 | 1 |
| | R.6.2.1.1 | 0 | 5 |
| ER.2.2.2 | R.6.2.1.1 | 6 | 0 |
| | R.6.2.1.2 | 6 | 0 |
| | R.7.2.1.2 | 0 | 6 |
| ER.2.2.4 | R.8.2.1.3 | 6 | 0 |
| | R.HS.2.1.3 | 0 | 5 |
| | R.5.2.1.3 | 6 | 0 |
| ER.2.2.5 | R.6.2.1.3 | 0 | 6 |

Table E2

Best Match with Grade-Level Math Standards

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| EM.1.1.1 | M.3.1.1.K2a | 6 | 0 |
| | M.3.1.1.K3a,c | 0 | 12 |
| | M.4.1.2.K1 | 6 | 0 |
| | M.7.1.1.A1a | 0 | 6 |
| EM.1.1.2 | M.3.1.1.K2a | 6 | 0 |
| | M.3.1.1.K3a | 0 | 6 |
| EM.1.1.3 | M.3.1.1.K2a | 6 | 0 |
| | M.4.1.2.K1 | 6 | 0 |
| | M.6.1.1.K2a | 0 | 6 |
| EM.1.1.4 | M.3.1.1.K3a | 0 | 6 |
| | M.3.1.1.K4 | 6 | 0 |
| | M.7.1.1.A1a | 6 | 0 |
| EM.1.1.5 | M.3.1.1.K2a | 6 | 0 |
| | M.3.1.1.K3a | 6 | 0 |
| | M.4.1.2.K1 | 6 | 0 |
| | M.6.1.1.K2a,c | 0 | 11 |
| | M.8.1.2.K2 | 6 | 0 |
| EM.1.1.6 | M.3.1.1.K2a | 6 | 0 |
| | M.3.1.1.K3a | 6 | 0 |
| | M.4.1.2.K1 | 6 | 0 |
| | M.5.1.1.K1a,c | 12 | 0 |
| | M.7.1.1.A1a | 6 | 0 |
| | M.8.1.2.K2 | 0 | 6 |
| EM.1.1.7 | M.3.1.1.K2a | 3 | 0 |
| | M.3.1.1.K4 | 0 | 3 |
| | M.4.1.2.K1 | 3 | 0 |
| | M.5.1.1.K1a | 3 | 0 |
| | M.6.1.1.K2a,c | 0 | 6 |
| EM.1.1.8 | M.3.1.1.K3c | 3 | 0 |
| | M.3.1.1.K4 | 3 | 0 |
| | M.5.1.1.K1b | 3 | 0 |
| | M.6.1.1.K2b | 3 | 0 |
| | M.6.1.1.K4 | 0 | 3 |
| EM.1.1.11 | M.3.1.1.K2a | 3 | 0 |
| | M.4.1.2.K1 | 0 | 3 |
| | M.5.1.1.K1a | 0 | 3 |
| | M.6.1.1.K2a | 3 | 0 |
| EM.1.1.12 | M.3.1.1.K2a | 3 | 0 |
| | M.3.1.1.K3c | 0 | 3 |
| | M.3.1.1.K4 | 3 | 0 |
| | M.5.1.1.K1c | 0 | 3 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| | M.8.1.4.A1c | 0 | 3 |
| | M.HS.1.4.A1c | 0 | 3 |
| EM.1.1.13 | M.3.1.1.K3c | 3 | 0 |
| | M.3.1.1.K4 | 3 | 0 |
| | M.3.1.4.A1b-e | 0 | 12 |
| | M.5.1.1.K1c | 3 | 0 |
| EM.1.2.1 | M.3.1.1.K2a | 0 | 3 |
| | M.3.1.1.K3a | 0 | 3 |
| EM.1.2.2 | M.3.1.1.K2a | 3 | 0 |
| | M.4.1.2.K1 | 0 | 3 |
| | M.5.1.1.K1a,c | 3 | 3 |
| | M.6.1.1.K2a-c | 3 | 6 |
| EM.1.2.3 | M.3.1.1.K2a | 3 | 0 |
| | M.4.1.2.K1 | 3 | 0 |
| | M.5.1.1.K1a | 3 | 0 |
| | M.6.1.1.K2a | 0 | 3 |
| EM.1.2.4 | M.3.1.1.K3b | 3 | 0 |
| | M.3.1.4.K7 | 3 | 0 |
| | M.8.1.2.K2 | 3 | 0 |
| EM.1.2.5 | M.3.1.1.K3a,c | 0 | 6 |
| | M.4.1.2.K1 | 3 | 0 |
| EM.1.3.1 | M.5.1.3.A4 | 3 | 3 |
| | M.5.1.3.K2 | 6 | 0 |
| | M.6.1.3.A2 | 3 | 3 |
| | M.HS.1.3.A1 | 3 | 3 |
| EM.1.3.2 | M.5.1.3.A4 | 3 | 3 |
| | M.5.1.3.K2 | 3 | 3 |
| | M.6.1.3.A2 | 0 | 3 |
| | M.HS.1.3.A1 | 0 | 3 |
| EM.1.3.3 | M.5.1.3.A4 | 3 | 0 |
| | M.5.1.3.K2 | 3 | 0 |
| | M.6.1.3.A2 | 0 | 3 |
| | M.8.1.4.A1c | 0 | 3 |
| | M.HS.1.3.A1 | 0 | 3 |
| | M.HS.1.4.A1c | 0 | 3 |
| EM.1.3.4 | M.5.1.3.A4 | 0 | 3 |
| | M.5.1.3.K2 | 0 | 3 |
| | M.6.1.3.A2 | 3 | 0 |
| | M.HS.1.3.A1 | 0 | 3 |
| EM.1.4.1 | M.3.1.1.K3 | 3 | 0 |
| | M.3.1.1.K4 | 0 | 3 |
| | M.3.1.4.A1a | 0 | 3 |
| | M.4.1.4.A1a | 0 | 3 |
| | M.4.1.4.K6a,b,d | 9 | 0 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| EM.1.4.2 | M.5.1.4.A1a,e | 0 | 6 |
| | M.8.1.4.K2a | 0 | 3 |
| | M.3.1.4.A1a | 3 | 0 |
| | M.4.1.4.A1a | 3 | 0 |
| EM.1.4.3 | M.8.1.4.K2a | 0 | 3 |
| | M.3.1.4.A1a | 3 | 0 |
| | M.4.1.2.K5a-d | 0 | 12 |
| | M.4.1.4.A1a | 3 | 0 |
| EM.1.4.4 | M.5.1.4.A1a,e | 3 | 3 |
| | M.7.1.4.K2a | 3 | 0 |
| | M.8.1.4.K2a | 0 | 3 |
| | M.3.1.1.K3b | 3 | 0 |
| EM.1.4.5 | M.3.1.4.K7 | 0 | 3 |
| | M.3.1.1.K3b | 0 | 3 |
| EM.1.4.6 | M.3.1.4.K7 | 0 | 3 |
| | M.4.1.4.K6b-d | 9 | 0 |
| | M.5.1.4.A1f | 0 | 3 |
| | M.7.1.4.K2c | 0 | 3 |
| | M.8.1.1.K5a-c | 3 | 0 |
| | M.3.1.1.K3a | 9 | 0 |
| | M.3.1.1.K4 | 3 | 0 |
| | M.3.1.4.K7 | 3 | 0 |
| | M.4.1.2.K5a-d | 12 | 0 |
| | M.4.1.4.A1a-b | 6 | 0 |
| | M.4.1.4.K6a-d | 12 | 0 |
| | M.5.1.4.A1a-f | 18 | 0 |
| | M.5.1.4.K4 | 0 | 3 |
| | M.6.1.4.A1b | 3 | 0 |
| M.6.1.4.K2a,f | 6 | 0 | |
| EM.1.4.7 | M.7.1.4.A1a | 3 | 0 |
| | M.7.1.4.K2a-d | 12 | 0 |
| | M.7.1.4.K5 | 0 | 3 |
| | M.8.1.2.A1a-b | 3 | 0 |
| | M.8.1.4.A1a-b | 6 | 0 |
| | M.8.1.4.K2a | 3 | 0 |
| | M.HS.1.2.K3a-d | 12 | 0 |
| | M.HS.1.4.A1a-c | 9 | 0 |
| | M.4.1.2.K5a-d | 12 | 0 |
| | M.4.1.4.A1a-e | 15 | 0 |
| | M.5.1.4.A1a-d,f | 15 | 0 |
| | M.5.1.4.K4 | 0 | 3 |
| | M.6.1.4.K2a,f | 3 | 0 |
| | M.8.1.2.A1a-b | 3 | 0 |
| M.8.1.4.A1a | 3 | 0 | |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| EM.1.4.8 | M.HS.1.4.A1a-c | 9 | 0 |
| | M.3.1.1.K3c | 6 | 0 |
| | M.3.1.4.A1b | 0 | 6 |
| EM.1.4.9 | M.4.1.4.A1a | 0 | 6 |
| | M.3.1.4.A1a | 5 | 0 |
| | M.4.1.4.A1a-b | 0 | 12 |
| EM.2.1.1 | M.5.1.4.A1a | 0 | 6 |
| | M.3.2.1.A2 | 6 | 0 |
| | M.3.2.3.K3 | 6 | 0 |
| EM.2.1.2 | M.6.2.1.K4 | 0 | 6 |
| | M.7.2.1.K1a-b | 0 | 6 |
| | M.3.2.1.A2 | 6 | 0 |
| EM.2.1.3 | M.3.2.3.K3 | 0 | 6 |
| | M.3.2.3.K3 | 6 | 0 |
| EM.2.1.4 | M.4.2.3.K2 | 0 | 1 |
| | M.6.2.1.K4 | 0 | 5 |
| | M.3.2.3.K3 | 6 | 0 |
| EM.2.2.1 | M.6.2.1.K4 | 0 | 6 |
| | M.8.2.2.A1a | 1 | 0 |
| EM.2.2.2 | M.8.2.2.K3a | 0 | 1 |
| | M.4.2.2.K2a-b | 6 | 6 |
| EM.2.2.3 | M.5.2.2.K2 | 6 | 0 |
| | M.6.2.2.A1b | 0 | 6 |
| EM.2.2.4 | M.6.2.2.A1b | 3 | 0 |
| | M.7.2.2.A1 | 0 | 3 |
| EM.2.3.1 | M.4.2.3.A1 | 3 | 0 |
| | M.4.2.3.K2 | 0 | 3 |
| EM.2.3.2 | M.4.2.3.A1 | 2 | 0 |
| EM.2.3.3 | M.4.2.3.A1 | 0 | 3 |
| | M.4.2.3.K2 | 0 | 1 |
| EM.2.3.4 | M.4.2.3.A1 | 3 | 0 |
| | M.4.2.3.K2 | 0 | 3 |
| EM.2.4.1 | M.8.2.4.A2 | 0 | 3 |
| EM.2.4.3 | M.7.2.2.A1 | 0 | 3 |
| EM.3.1.1 | M.3.3.1.K4 | 3 | 0 |
| | M.4.3.1.A2 | 0 | 3 |
| EM.3.1.2 | M.3.3.1.K4 | 3 | 0 |
| | M.4.3.1.A2 | 3 | 0 |
| | M.5.3.1.K3 | 0 | 3 |
| EM.3.1.3 | M.3.3.1.K4 | 3 | 0 |
| | M.4.3.1.A2 | 0 | 3 |
| EM.3.1.4 | M.3.3.1.K4 | 3 | 0 |
| | M.4.3.1.A2 | 3 | 0 |
| | M.5.3.1.K3 | 0 | 3 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| EM.3.1.5 | M.3.3.1.K4 | 3 | 0 |
| | M.4.3.1.A2 | 0 | 3 |
| EM.3.2.1 | M.3.3.2.A1a,b,e | 3 | 6 |
| EM.3.2.2 | M.3.3.2.A1e | 3 | 0 |
| | M.5.3.2.A1f | 0 | 3 |
| EM.3.2.3 | M.3.3.2.K2 | 2 | 1 |
| | M.4.3.2.K2e | 0 | 2 |
| EM.3.2.4 | M.5.3.2.K4a | 3 | 0 |
| | M.6.3.2.K3b | 0 | 3 |
| EM.3.2.5 | M.4.3.2.A2 | 2 | 0 |
| EM.3.3.1 | M.4.3.3.K2 | 3 | 0 |
| | M.4.3.4.K3 | 0 | 3 |
| EM.3.3.2 | M.4.3.3.K2 | 3 | 0 |
| | M.5.3.3.K3 | 0 | 3 |
| EM.3.3.3 | M.4.3.3.K2 | 2 | 0 |
| | M.5.3.3.K3 | 2 | 0 |
| | M.6.3.3.K1 | 0 | 3 |
| EM.3.3.4 | M.4.3.4.K3 | 3 | 0 |
| | M.6.3.4.K3a-b | 0 | 3 |
| EM.3.3.5 | M.4.3.4.K3 | 3 | 0 |
| | M.6.3.4.K3a-b | 0 | 3 |
| EM.3.3.6 | M.4.3.4.K3 | 2 | 0 |
| | M.6.3.4.K3a-b | 0 | 3 |
| EM.4.1.1 | M.3.4.1.K2 | 6 | 0 |
| | M.5.4.1.A1 | 0 | 6 |
| EM.4.1.2 | M.3.4.1.K2 | 6 | 0 |
| | M.5.4.1.A1 | 0 | 6 |
| EM.4.1.3 | M.5.4.1.A1 | 0 | 5 |
| | M.6.4.1.K2 | 5 | 0 |
| EM.4.2.1 | M.3.4.2.K3a-d | 6 | 6 |
| EM.4.2.2 | M.3.4.2.K3a-c | 3 | 6 |
| EM.4.2.3 | M.3.4.2.K3a-c | 6 | 3 |
| EM.4.2.4 | M.4.4.2.K1b-i | 3 | 0 |
| | M.5.4.2.A1b-h | 0 | 3 |
| EM.4.2.5 | M.7.4.2.A3a-b | 3 | 0 |
| EM.4.2.6 | M.3.4.2.K3a-d | 9 | 3 |
| | M.4.4.2.A2a-e | 0 | 3 |

Table E3

Best Match with Grade Level Science Standards

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| ES.1.1.1 | S.4.1.1.2 | 6 | 0 |
| | S.7.1.1.2 | 0 | 6 |
| ES.1.1.2 | S.7.1.1.2 | 6 | 0 |
| ES.1.1.3 | S.7.1.1.3 | 6 | 0 |
| ES.1.1.4 | S.4.1.1.3 | 6 | 0 |
| | S.HS.1.1.3 | 0 | 6 |
| ES.1.1.5 | S.4.1.1.3 | 6 | 0 |
| | S.7.1.1.2 | 0 | 6 |
| | S.HS.1.1.2 | 0 | 6 |
| ES.1.1.6 | S.4.1.1.1 | 6 | 0 |
| ES.1.1.7 | S.7.1.1.3 | 6 | 0 |
| ES.1.2.1 | S.4.1.1.2 | 6 | 0 |
| ES.1.2.2 | S.4.1.1.2 | 6 | 0 |
| | S.7.1.1.2 | 6 | 0 |
| | S.HS.1.1.2 | 6 | 0 |
| ES.2.1.1 | S.4.2.1.1 | 6 | 0 |
| ES.2.1.2 | S.4.2.1.2 | 6 | 0 |
| | S.4.2.1.4 | 0 | 6 |
| ES.2.1.3 | S.4.2.2.1 | 6 | 0 |
| | S.7.2.3.3 | 0 | 6 |
| ES.2.1.4 | S.4.2.3.1 | 1 | 0 |
| ES.2.1.5 | S.4.2.1.2 | 6 | 0 |
| ES.2.1.6 | S.4.2.1.1 | 6 | 0 |
| ES.2.2.1 | S.4.2.1.4 | 6 | 0 |
| ES.2.2.2 | S.4.2.1.3 | 6 | 0 |
| | S.4.2.2.1 | 0 | 6 |
| | S.4.2.4.1 | 0 | 6 |
| ES.3.1.1 | S.4.3.1.1 | 6 | 0 |
| ES.3.1.2 | S.4.3.1.2 | 6 | 0 |
| ES.3.2.1 | S.4.3.2.1 | 6 | 0 |
| | S.7.3.2.1 | 0 | 6 |
| | S.HS.3.7.3 | 6 | 0 |
| ES.3.2.2 | S.4.3.1.2 | 6 | 0 |
| ES.3.2.3 | S.4.3.1.1 | 5 | 0 |
| | S.7.3.2.1 | 6 | 0 |
| | S.7.3.5.2 | 0 | 6 |
| | S.HS.3.3.4 | 0 | 6 |

| Extended Indicator | General Indicator | Primary | Secondary |
|--------------------|-------------------|---------|-----------|
| ES.3.2.4 | S.7.3.3.1 | 0 | 6 |
| | S.HS.3.6.1 | 5 | 1 |
| ES.3.3.1 | S.HS.3.3.4 | 6 | 0 |
| ES.3.4.1 | S.7.3.3.1 | 6 | 0 |
| | S.7.3.5.3 | 0 | 6 |
| | S.HS.3.6.1 | 6 | 0 |
| ES.3.4.2 | S.4.3.1.2 | 0 | 6 |
| | S.7.3.3.1 | 6 | 0 |
| ES.4.1.1 | S.4.4.1.1 | 6 | 0 |
| | S.7.4.1.1 | 0 | 6 |
| ES.4.1.2 | S.4.4.1.1 | 6 | 0 |
| | S.4.4.3.1 | 0 | 6 |
| | S.7.4.1.1 | 6 | 0 |
| ES.4.2.1 | S.7.4.3.1 | 6 | 0 |
| ES.4.2.2 | S.4.4.2.3 | 6 | 0 |
| | S.7.4.2.1 | 0 | 1 |
| | S.7.4.4.1 | 0 | 6 |
| | S.HS.4.3.2 | 0 | 6 |
| ES.4.2.3 | S.7.4.3.1 | 5 | 0 |
| | S.7.4.4.1 | 1 | 4 |
| | S.HS.4.3.2 | 1 | 4 |
| ES.4.3.1 | S.4.4.2.3 | 0 | 5 |
| | S.4.4.3.2 | 6 | 0 |
| ES.5.1.2 | S.HS.5.1.1 | 6 | 0 |
| ES.5.1.3 | S.HS.5.1.1 | 6 | 0 |
| ES.5.2.1 | S.HS.5.1.1 | 6 | 0 |
| ES.6.1.2 | S.4.6.1.1 | 6 | 0 |
| | S.7.6.1.1 | 6 | 0 |
| ES.6.2.1 | S.7.6.2.1 | 6 | 0 |
| ES.6.3.1 | S.7.6.2.1 | 6 | 0 |
| ES.7.1.1 | S.7.7.2.1 | 6 | 0 |
| ES.7.1.2 | S.7.7.2.1 | 6 | 0 |

Appendix F

Table F1

Percentage of Ratings for Intensity of Coverage for Each Reading Activity

| Reading Topics | Intensity of Coverage | | | | | Planned |
|---|-----------------------|--------|---------------|----------------|----------------|---------|
| | None | Slight | Mod- erate | Sus- tained | Inten- sive | |
| <u>Language</u> | | | | | | |
| Discussion | 8.6 | 20.0 | 10.0 | 27.1 | 34.3 | 0.0 |
| Questioning, Listening, and Contributing | 7.1 | 11.4 | 17.1 | 31.4 | 32.9 | 0.0 |
| Oral Presentation | 38.6 | 31.4 | 11.4 | 8.6 | 8.6 | 1.4 |
| Vocabulary and Concept Development | 12.9 | 11.4 | 22.9 | 27.1 | 24.3 | 1.4 |
| Structure and Origins of Modern English | 32.9 | 22.9 | 12.9 | 12.9 | 17.1 | 1.4 |
| Formal and Informal English | 52.9 | 18.6 | 7.1 | 4.3 | 17.1 | 0.0 |
| <u>Reading & Literature</u> | | | | | | |
| Beginning Reading | 9.2 | 11.8 | 2.6 | 15.8 | 57.9 | 1.3 |
| Understanding a Text | 5.3 | 11.8 | 15.8 | 31.6 | 34.2 | 0.0 |
| Making Connections | 34.2 | 23.7 | 14.5 | 15.8 | 10.5 | 0.0 |
| Genre | 46.1 | 25.0 | 18.4 | 3.9 | 3.9 | 0.0 |
| Theme | 51.3 | 14.5 | 14.5 | 6.6 | 7.9 | 0.0 |
| Fiction | 14.5 | 19.7 | 25.0 | 19.7 | 19.7 | 0.0 |
| Nonfiction | 23.7 | 25.0 | 19.7 | 15.8 | 13.2 | 0.0 |
| Poetry | 55.3 | 26.3 | 7.9 | 3.9 | 5.3 | 0.0 |
| Style and Language | 57.9 | 14.5 | 18.4 | 3.9 | 3.9 | 0.0 |
| Myth, Traditional Narrative, and Classical Literature | 71.1 | 14.5 | 5.3 | 0.0 | 3.9 | 2.6 |
| Dramatic Literature | 63.2 | 19.7 | 3.9 | 5.3 | 5.3 | 0.0 |
| Dramatic Reading and Performance | 72.4 | 14.5 | 1.3 | 3.9 | 3.9 | 1.3 |

| Reading Topics | Intensity of Coverage | | | | | |
|---------------------------------------|-----------------------|--------|---------------|----------------|----------------|---------|
| | None | Slight | Mod- erate | Sus- tained | Inten- sive | Planned |
| <u>Composition</u> | | | | | | |
| Writing | 6.1 | 18.4 | 6.1 | 20.4 | 49.0 | 0.0 |
| Consideration of Audience and Purpose | 57.1 | 28.6 | 8.2 | 6.1 | 0.0 | 0.0 |
| Revising | 61.2 | 12.2 | 10.2 | 10.2 | 6.1 | 0.0 |
| Standard English Conventions | 16.3 | 4.1 | 20.4 | 14.3 | 44.9 | 0.0 |
| Organizing Ideas in Writing | 26.5 | 20.4 | 20.4 | 16.3 | 14.3 | 0.0 |
| Research | 55.1 | 26.5 | 10.2 | 2.0 | 4.1 | 0.0 |
| Evaluating Writing and Presentations | 73.5 | 14.3 | 4.1 | 4.1 | 2.0 | 0.0 |
| <u>Media</u> | | | | | | |
| Analysis of Media | 58.3 | 8.3 | 0.0 | 16.7 | 0.0 | 0.0 |
| Media Production | 8.3 | 25.0 | 41.7 | 16.7 | 0.0 | 8.3 |

Table F2

Percentage of Ratings for Intensity of Coverage for Each Math Concept

| Mathematics Topics | Intensity of Coverage | | | | | |
|--|-----------------------|--------|---------------|----------------|----------------|---------|
| | None | Slight | Mod- erate | Sus- tained | Inten- sive | Planned |
| <u>Number Sense & Operations</u> | | | | | | |
| Number Sense | 2.5 | 3.8 | 10.1 | 21.5 | 60.8 | 0.0 |
| Operations | 10.1 | 7.6 | 13.9 | 22.8 | 39.2 | 1.3 |
| Computation and Estimation | 27.8 | 16.5 | 19.0 | 13.9 | 21.5 | 1.3 |
| <u>Patterns, Relations, & Algebra</u> | | | | | | |
| Patterns, Relations, and Functions | 1.4 | 18.8 | 26.1 | 27.5 | 26.1 | 0.0 |
| Algebra | 49.3 | 20.3 | 11.6 | 11.6 | 2.9 | 4.3 |
| Relationships and Mathematical Models | 37.7 | 24.6 | 14.5 | 15.9 | 5.8 | 1.4 |
| Variables and Change | 68.1 | 13.0 | 10.1 | 2.9 | 2.9 | 2.9 |
| <u>Geometry</u> | | | | | | |
| Characteristics of Geometric Shapes | 1.6 | 21.3 | 37.7 | 23.0 | 16.4 | 0.0 |
| Spatial Relationships/ Coordinate Geometry | 55.7 | 13.1 | 18.0 | 6.6 | 6.6 | 0.0 |
| Transformation/Symmetry | 54.1 | 24.6 | 9.8 | 1.6 | 3.3 | 3.3 |
| Visualization/Spatial Reasoning/Geometric Modeling | 49.2 | 27.9 | 8.2 | 8.2 | 3.3 | 1.6 |
| <u>Measurement</u> | | | | | | |
| Measurement Tools | 0.0 | 6.9 | 18.1 | 27.8 | 45.8 | 1.4 |
| Concepts and Attributes of Measurement | 26.4 | 29.2 | 19.4 | 12.5 | 6.9 | 5.6 |
| Formulas of Measurement | 69.4 | 16.7 | 2.8 | 4.2 | 1.4 | 4.2 |
| <u>Data Analysis, Statistics, and Probability</u> | | | | | | |
| Data and Statistics | 3.6 | 36.4 | 30.9 | 20.0 | 7.3 | 0.0 |
| Probability | 38.2 | 23.6 | 12.7 | 10.9 | 9.1 | 3.6 |

Table F3

Percentage of Ratings for Intensity of Coverage for Each Science Concept

| Science Topics | Intensity of Coverage | | | | | |
|--|-----------------------|--------|---------------|----------------|----------------|---------|
| | None | Slight | Mod- erate | Sus- tained | Inten- sive | Planned |
| <u>Earth & Space Science</u> | | | | | | |
| Structure and Energy in the Earth's System | 2.5 | 25.0 | 25.0 | 20.0 | 25.0 | 0.0 |
| History, Origin, and Evolution of the Earth and the Universe | 65.0 | 17.5 | 5.0 | 2.5 | 5.0 | 0.0 |
| Earth, the Solar System, and Objects in the Sky | 40.0 | 32.5 | 10.0 | 7.5 | 2.5 | 5.0 |
| <u>Life Science (Biology)</u> | | | | | | |
| Characteristics of Organisms | 12.5 | 39.6 | 33.3 | 4.2 | 4.2 | 4.2 |
| Life Cycles of Organisms | 43.8 | 33.3 | 10.4 | 6.3 | 0.0 | 6.3 |
| Organisms and Environments, Populations, and Ecosystems | 58.3 | 16.7 | 18.8 | 6.3 | 0.0 | 0.0 |
| Cellular and Molecular Basis of Life | 83.3 | 4.2 | 6.3 | 0.0 | 2.1 | 2.1 |
| Reproduction & Heredity, Diversity, Adaptation, & Evolution of Organisms | 85.4 | 6.3 | 4.2 | 0.0 | 0.0 | 2.1 |
| Regulation and Behavior of Organisms | 66.7 | 22.9 | 4.2 | 0.0 | 0.0 | 4.2 |
| Matter, Energy, and Organization in Living Systems | 62.5 | 18.8 | 6.3 | 2.1 | 2.1 | 2.1 |
| Personal and Community Health | 8.3 | 20.8 | 35.4 | 20.8 | 8.3 | 4.2 |
| <u>Physical Science (Chemistry & Physics)</u> | | | | | | |
| Properties of Matter | 5.7 | 22.9 | 40.0 | 20.0 | 11.4 | 0.0 |
| Chemical and Physical Changes in Matter | 48.6 | 25.7 | 11.4 | 5.7 | 2.9 | 0.0 |
| Motion and Forces | 77.1 | 14.3 | 5.7 | 0.0 | 2.9 | 0.0 |
| Energy | 57.1 | 22.9 | 11.4 | 2.9 | 2.9 | 0.0 |
| Atomic Theory | 91.4 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 |

| Science Topics | Intensity of Coverage | | | | | |
|---|-----------------------|--------|---------------|----------------|----------------|---------|
| | None | Slight | Mod- erate | Sus- tained | Inten- sive | Planned |
| <u>Technology/Engineering</u> | | | | | | |
| Materials and Tools | 3.2 | 38.7 | 41.9 | 6.5 | 6.5 | 0.0 |
| <u>History & Nature of Science</u> | | | | | | |
| Science as a Human Endeavor | 60.0 | 30.0 | 10.0 | 0.0 | 0.0 | 0.0 |
| Nature of Science | 20.0 | 30.0 | 20.0 | 30.0 | 0.0 | 0.0 |
| History of Science | 70.0 | 20.0 | 10.0 | 0.0 | 0.0 | 0.0 |
| <u>Science as Inquiry</u> | | | | | | |
| Understanding of and Abilities Necessary to Do Scientific Inquiry | 0.0 | 40.0 | 40.0 | 5.0 | 10.0 | 0.0 |

Appendix G

Table G1

Percentage of Ratings for Highest Performance Expectation for the Target Student by Reading Concept

| Reading Topics | Highest Performance Expectation | | | | | |
|--|---------------------------------|----------|-------------|---------------|-------------|----------|
| | Attention | Memorize | Performance | Comprehension | Application | Analysis |
| <u>Language</u> | | | | | | |
| Discussion | 21.4 | 7.1 | 27.1 | 17.1 | 14.3 | 4.3 |
| Questioning, Listening, and Contributing | 22.9 | 10.0 | 24.3 | 17.1 | 15.7 | 1.4 |
| Oral Presentation | 28.6 | 7.1 | 21.4 | 8.6 | 7.1 | 1.4 |
| Vocabulary and Concept Development | 22.9 | 14.3 | 24.3 | 21.4 | 4.3 | 2.9 |
| Structure and Origins of Modern English | 24.3 | 15.7 | 25.7 | 4.3 | 7.1 | 1.4 |
| Formal and Informal English | 24.3 | 4.3 | 21.4 | 5.7 | 7.1 | 1.4 |
| <u>Reading & Literature</u> | | | | | | |
| Beginning Reading | 14.5 | 10.5 | 26.3 | 11.8 | 26.3 | 2.6 |
| Understanding a Text | 21.1 | 14.5 | 27.6 | 17.1 | 11.8 | 2.6 |
| Making Connections | 35.5 | 13.2 | 10.5 | 15.8 | 2.6 | 1.3 |
| Genre | 34.2 | 17.1 | 6.6 | 6.6 | 0.0 | 2.6 |
| Theme | 35.5 | 13.2 | 6.6 | 5.3 | 1.3 | 1.3 |
| Fiction | 23.7 | 21.1 | 19.7 | 14.5 | 5.3 | 2.6 |
| Nonfiction | 28.9 | 21.1 | 14.5 | 10.5 | 3.9 | 2.6 |
| Poetry | 36.8 | 7.9 | 9.2 | 2.6 | 2.6 | 1.3 |
| Style and Language | 30.3 | 7.9 | 9.2 | 3.9 | 1.3 | 1.3 |
| <u>Myth, Traditional Narrative, and Classical Literature</u> | | | | | | |
| Literature | 32.9 | 2.6 | 3.9 | 3.9 | 0.0 | 1.3 |
| Dramatic Literature | 34.2 | 5.3 | 5.3 | 5.3 | 1.3 | 1.3 |

| Reading Topics | Highest Performance Expectation | | | | | |
|---------------------------------------|---------------------------------|----------|-------------|---------------|-------------|----------|
| | Attention | Memorize | Performance | Comprehension | Application | Analysis |
| Dramatic Reading and Performance | 38.2 | 2.6 | 7.9 | 1.3 | 1.3 | 1.3 |
| <u>Composition</u> | | | | | | |
| Writing | 16.3 | 8.2 | 40.8 | 6.1 | 20.4 | 2.0 |
| Consideration of Audience and Purpose | 34.7 | 12.2 | 8.2 | 6.1 | 0.0 | 0.0 |
| Revising | 28.6 | 4.1 | 14.3 | 0.0 | 8.2 | 2.0 |
| Standard English Conventions | 8.2 | 8.2 | 38.8 | 12.2 | 14.3 | 6.1 |
| Organizing Ideas in Writing | 16.3 | 12.2 | 28.6 | 14.3 | 4.1 | 2.0 |
| Research | 30.6 | 12.2 | 12.2 | 2.0 | 2.0 | 0.0 |
| Evaluating Writing and Presentations | 24.5 | 12.2 | 6.1 | 0.0 | 2.0 | 0.0 |
| <u>Media</u> | | | | | | |
| Analysis of Media | 16.7 | 8.3 | 0.0 | 8.3 | 8.3 | 0.0 |
| Media Production | 16.7 | 16.7 | 41.7 | 8.3 | 16.7 | 0.0 |

Table G2

Percentage of Ratings for Highest Performance Expectation for the Target Student by Math Concept

| Mathematics Topics | Highest Performance Expectation | | | | | |
|--|---------------------------------|----------|-------------|---------------|-------------|----------|
| | Attention | Memorize | Performance | Comprehension | Application | Analysis |
| <u>Number Sense & Operations</u> | | | | | | |
| Number Sense | 16.5 | 5.1 | 38.0 | 8.9 | 22.8 | 3.8 |
| Operations | 20.3 | 6.3 | 35.4 | 8.9 | 17.7 | 0.0 |
| Computation and Estimation | 16.5 | 8.9 | 25.3 | 8.9 | 12.7 | 0.0 |
| <u>Patterns, Relations, & Algebra</u> | | | | | | |
| Patterns, Relations, and Functions | 20.3 | 10.1 | 36.2 | 11.6 | 15.9 | 1.4 |
| Algebra | 23.2 | 7.2 | 17.4 | 4.3 | 1.4 | 1.4 |
| Relationships and Mathematical Models | 26.1 | 13.0 | 13.0 | 4.3 | 8.7 | 0.0 |
| Variables and Change | 24.6 | 1.4 | 8.7 | 1.4 | 4.3 | 0.0 |
| <u>Geometry</u> | | | | | | |
| Characteristics of Geometric Shapes | 27.9 | 13.1 | 27.9 | 13.1 | 13.1 | 0.0 |
| Spatial Relationships/ Coordinate Geometry | 16.4 | 8.2 | 14.8 | 3.3 | 8.2 | 0.0 |
| Transformation/Symmetry | 21.3 | 6.6 | 14.8 | 6.6 | 4.9 | 0.0 |
| Visualization/Spatial Reasoning/Geometric Modeling | 24.6 | 3.3 | 13.1 | 6.6 | 3.3 | 1.6 |
| <u>Measurement</u> | | | | | | |
| Measurement Tools | 13.9 | 11.1 | 37.5 | 12.5 | 23.6 | 0.0 |
| Concepts and Attributes of Measurement | 18.1 | 15.3 | 22.2 | 6.9 | 11.1 | 0.0 |
| Formulas of Measurement | 18.1 | 6.9 | 6.9 | 4.2 | 2.8 | 0.0 |
| <u>Data Analysis, Statistics, and Probability</u> | | | | | | |
| Data and Statistics | 23.6 | 20.0 | 29.1 | 5.5 | 9.1 | 0.0 |
| Probability | 23.6 | 10.9 | 12.7 | 7.3 | 9.1 | 0.0 |

Table G3

Percentage of Ratings for Highest Performance Expectation for the Target Student by Science Concept

| Science Topics | Highest Performance Expectation | | | | | |
|--|---------------------------------|----------------|-------------------|---------------------|-------------------|----------------|
| | Atten- -tion | Memor- -ize | Perfor- -mance | Compre- -hension | Appli- -cation | Anal- -ysis |
| <u>Earth & Space Science</u> | | | | | | |
| Structure and Energy in the Earth's System | 25.0 | 7.5 | 27.5 | 10.0 | 15.0 | 5.0 |
| History, Origin, and Evolution of the Earth and the Universe | 27.5 | 7.5 | 2.5 | 0.0 | 2.5 | 0.0 |
| Earth, the Solar System, and Objects in the Sky | 30.0 | 10.0 | 15.0 | 2.5 | 2.5 | 2.5 |
| <u>Life Science (Biology)</u> | | | | | | |
| Characteristics of Organisms | 33.3 | 20.8 | 22.9 | 2.1 | 8.3 | 0.0 |
| Life Cycles of Organisms | 20.8 | 22.9 | 10.4 | 4.2 | 2.1 | 0.0 |
| Organisms and Environments, Populations, and Ecosystems | 18.8 | 10.4 | 12.5 | 6.3 | 0.0 | 0.0 |
| Cellular and Molecular Basis of Life | 18.8 | 4.2 | 2.1 | 2.1 | 0.0 | 0.0 |
| Reproduction & Heredity, Diversity, Adaptation, & Evolution of Organisms | 25.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| Regulation and Behavior of Organisms | 20.8 | 8.3 | 10.4 | 2.1 | 0.0 | 0.0 |
| Matter, Energy, and Organization in Living Systems | 18.8 | 10.4 | 8.3 | 4.2 | 0.0 | 0.0 |
| Personal and Community Health | 20.8 | 14.6 | 35.4 | 10.4 | 8.3 | 0.0 |
| <u>Physical Science (Chemistry & Physics)</u> | | | | | | |
| Properties of Matter | 17.1 | 25.7 | 37.1 | 8.6 | 5.7 | 0.0 |
| Chemical and Physical Changes in Matter | 22.9 | 14.3 | 17.1 | 5.7 | 0.0 | 0.0 |
| Motion and Forces | 22.9 | 11.4 | 8.6 | 0.0 | 0.0 | 0.0 |
| Energy | 20.0 | 17.1 | 22.9 | 0.0 | 0.0 | 0.0 |
| Atomic Theory | 25.7 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 |

| Science Topics | Highest Performance Expectation | | | | | |
|---|---------------------------------|----------------|-------------------|---------------------|-------------------|----------------|
| | Atten- -tion | Memor- -ize | Perfor- -mance | Compre- -hension | Appli- -cation | Anal- -ysis |
| <u>Technology/Engineering</u> | | | | | | |
| Materials and Tools | 22.6 | 22.6 | 32.3 | 6.5 | 6.5 | 0.0 |
| <u>History & Nature of Science</u> | | | | | | |
| Science as a Human Endeavor | 10.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 |
| Nature of Science | 20.0 | 0.0 | 70.0 | 0.0 | 0.0 | 0.0 |
| History of Science | 10.0 | 0.0 | 20.0 | 0.0 | 0.0 | 0.0 |
| <u>Science as Inquiry</u> | | | | | | |
| Understanding of and Abilities Necessary to Do Scientific Inquiry | 25.0 | 20.0 | 40.0 | 0.0 | 10.0 | 0.0 |