2017-2018 Winter NWEA Class Size vs. Growth Analysis

Office of Teaching and Learning
## Correlation Overview

<table>
<thead>
<tr>
<th>Group</th>
<th>Correlation</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-8 ELA</td>
<td>0.010</td>
</tr>
<tr>
<td>3-8 Class Size &gt; 25</td>
<td>0.028</td>
</tr>
<tr>
<td>3-8 ELA Honors/Plus</td>
<td>0.049</td>
</tr>
<tr>
<td>3-8 On Grade Level ELA/Reading</td>
<td>0.071</td>
</tr>
<tr>
<td>6-8 Class Size &gt; 25</td>
<td>0.071</td>
</tr>
<tr>
<td>3-8 On Grade Level</td>
<td>0.073</td>
</tr>
<tr>
<td>All Middle School</td>
<td>0.081</td>
</tr>
<tr>
<td>3-5 Plus</td>
<td>0.081</td>
</tr>
<tr>
<td>Grades 3-8</td>
<td>0.115</td>
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<tr>
<td>6-8 On Grade Level</td>
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<tr>
<td>All Elementary</td>
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</tr>
<tr>
<td>6-8 Honors</td>
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<tr>
<td>3-5 Class Size &gt; 25</td>
<td>0.161</td>
</tr>
<tr>
<td>6-8 On Grade Level Math</td>
<td>0.189</td>
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<tr>
<td>3-8 Honors/Plus</td>
<td>0.200</td>
</tr>
<tr>
<td>3-8 Math Honors/Plus</td>
<td>0.200</td>
</tr>
<tr>
<td>6-8 On Grade Level ELA/Reading</td>
<td>0.212</td>
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<tr>
<td>3-5 On Grade Level ELA</td>
<td>0.212</td>
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<tr>
<td>3-5 On Grade Level</td>
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<tr>
<td>3-8 Math</td>
<td>0.271</td>
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<tr>
<td>3-8 On Grade Level Math</td>
<td>0.276</td>
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<tr>
<td>3-5 On Grade Level Math</td>
<td>0.317</td>
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</tbody>
</table>
Grades 3-8

2017-2018 Winter NWEA Class Size vs Growth - Grades 3-8

\[ y = -0.0033x + 0.6743 \]
\[ R^2 = 0.0133 \]
All Elementary

2017-2018 Winter NWEA Class Size vs. Growth
All Elementary

\[ y = -0.0038x + 0.7241 \]
\[ R^2 = 0.019 \]
All Middle School

2017-2018 Winter NWEA Class Size vs. Growth
All Middle School

\[ y = 0.0023x + 0.4967 \]
\[ R^2 = 0.0065 \]
Grades 3-8 Math

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-8 Math

y = -0.0084x + 0.7935
R² = 0.0737
Grades 3-8 ELA

2017-2018 Winter NWEA Class vs. Growth
Grades 3-8 ELA

y = 0.0003x + 0.5894
R² = 0.0001
Grades 3-8 Honors/Plus

2017-2018 Winter NWEA Class Size vs. Growth
All Honors/Plus

y = -0.0051x + 0.7513
R² = 0.0402
Grades 3-8 Math Honors/Plus

2017-2018 Winter NWEA Class Size vs. Growth
Math Honors/Plus

\[ y = -0.0048x + 0.7742 \]

\[ R^2 = 0.0372 \]
Grades 3-8 ELA Honors/Plus

2017-2018 Winter NWEA Class Size vs. Growth
ELA Honors/Plus

y = 0.0014x + 0.5458
R² = 0.0024
Grades 3-8 On Grade Level

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-8 On Grade Level

y = -0.0022x + 0.6427
R² = 0.0054
Grades 3-8 On Grade Level Math

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-8 On Grade Level Math

\[ y = -0.0091x + 0.792 \]

\[ R^2 = 0.0762 \]
Grades 3-8 On Grade Level ELA/Reading

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-8 On Grade Level ELA/Reading

Percent of Students Who Met or Exceeded Growth

Number of Students

y = 0.0006x + 0.5844
R² = 0.0005
Elementary On Grade Level

2017-2018 Winter NWEA Class Size vs. Growth
Elementary On Grade Level

Percent of Students Who Met or Exceeded Growth

Number of Students

y = -0.0087x + 0.8093
R² = 0.0649
Elementary Plus

2017-2018 Winter NWEA Class Size vs. Growth
Elementary Plus

\[ y = -0.0015x + 0.7302 \]
\[ R^2 = 0.0065 \]
Middle School On Grade Level

2017-2018 Winter NWEA Class Size vs. Growth
MS On Grade Level

Percent of Students Who Met or Exceeded Growth

Number of Students

y = 0.0039x + 0.4624
R² = 0.0181
Middle School Honors

2017-2018 Winter NWEA Class Size vs. Growth
MS Honors

y = -0.0045x + 0.659
R² = 0.021
3-5 On Grade Level Math

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-5 On Grade Level Math

\[ y = -0.0124x + 0.8683 \]
\[ R^2 = 0.1002 \]
3-5 On Grade Level ELA

2017-2018 Winter NWEA Class Size vs. Growth
Grades 3-5 On Grade Level ELA

\[ y = -0.0062x + 0.7731 \]

\[ R^2 = 0.045 \]
Middle School - On Grade Level Math

2017-2018 Winter NWEA Class Size vs. Growth
MS On Grade Level Math

\[ y = 0.0076x + 0.3141 \]
\[ R^2 = 0.0357 \]
Middle School - On Grade Level ELA

2017-2018 Winter NWEA Class Size vs. Growth
MS On Grade Level ELA

\[ y = 0.0058x + 0.4352 \]
\[ R^2 = 0.0448 \]
Grades 3-8 - Class Size > 25
Grades 3-5 - Class Size > 25

2017-2018 Winter NWEA Class Size vs. Growth
Class Size > 25 in Grades 3-5

\[ y = 0.0072x + 0.447 \]
\[ R^2 = 0.026 \]
Grades 6-8 - Class Size > 25

2017-2018 Winter NWEA Class Size vs. Growth
Class Size > 25 in Grades 6-8

\[ y = -0.0046x + 0.6825 \]

\[ R^2 = 0.005 \]