Growth 101: Fundamentals of Growth

Emily Brantz
Assessment Consultant
Why are we here?

• What is growth?
• Why is it important?
• How is it measured?
• What are the key trends of growth?
• What tools are available to focus on growth?
  How do I access these tools/reports?
What is growth?

The measurable change in an individual student’s performance over time, using scores from one year to the next.
Wyoming Accountability in Education Act (WAEA)

- Elementary and Middle School
  - Achievement
  - Growth
  - Equity

Why is growth important?
Demonstrates improvement

Shows improvement among those with low achievement
Exceeding proficiency

Gives those who are high achieving more to strive for beyond proficiency
Terminology

Academic Peers

Students with similar test score history.
Terminology

Percentile score

Expresses that a student scored equal to, or better than, X % of students who had similar scores in the previous year.
Terminology

Student Growth Percentile (SGP)

A student’s growth over the past year, compared his or her academic peers.
Terminology

Median Growth Percentile (MGP)

Used to summarize SGPs across classes, grades, and schools.

<table>
<thead>
<tr>
<th>Last Name</th>
<th>SGP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smith</td>
<td>6</td>
</tr>
<tr>
<td>Johnson</td>
<td>12</td>
</tr>
<tr>
<td>Williams</td>
<td>21</td>
</tr>
<tr>
<td>Jones</td>
<td>32</td>
</tr>
<tr>
<td>Brown</td>
<td>34</td>
</tr>
<tr>
<td>Davis</td>
<td>47</td>
</tr>
<tr>
<td>Miller</td>
<td>55</td>
</tr>
<tr>
<td>Wilson</td>
<td>61</td>
</tr>
<tr>
<td>Moore</td>
<td>63</td>
</tr>
<tr>
<td>Taylor</td>
<td>74</td>
</tr>
<tr>
<td>Anderson</td>
<td>81</td>
</tr>
<tr>
<td>Thomas</td>
<td>88</td>
</tr>
<tr>
<td>Jackson</td>
<td>95</td>
</tr>
</tbody>
</table>

*The MGP is used in the Wyoming school rating system under the Wyoming Accountability in Education Act (WAEA), Enrolled Act 65.*
Rules of Thumb

- Student Growth Percentile Interpretation
  - $< 35$ is low growth
  - $35$ to $65$ is typical growth
  - $\geq 66$ is high growth

- School Growth Score Interpretation
  - WAEA school MGP cut-points
    - $< 45$ is below target
    - $45$ to $59$ is meeting target
    - $\geq 60$ is exceeding target
Growth Trends

A Student Growth percentile is **NOT** correlated with proficiency.
Growth and Prior Achievement

Wyoming 5th Grade Students
2015 Mathematics Performance

2015 SGP = 1
2014 4th Grade Math Scale Score = 798
2015 5th Grade Math Scale Score = 788

2015 SGP = 1
2014 4th Grade Math Scale Score = 502
2015 5th Grade Math Scale Score = 600
Growth Trends

Many proficient students are not keeping up.
Growth Trends

Some low-achieving students are not growing fast enough to catch up.
We take our moral and legal responsibility to protect student privacy and ensure data security and confidentiality seriously.
Security

The policies and practices implemented at the state, district, and school levels to ensure that data are kept safe from corruption and that access is limited and appropriate.
Confidentiality

The obligation of a person with access to another individual’s personally identifiable information not to share it without consent.
What resources are out there for me to use to focus on growth?
Individual Student Growth Report

- **Grade 3 2013-2014**
  - Scale Score: 634
  - Achievement Level: Proficient
  - Growth Percentile: 80
  - Growth Level: Typical

- **Grade 4 2014-2015**
  - Scale Score: 676
  - Achievement Level: Proficient
  - Growth Percentile: 80
  - Growth Level: Typical

- **Grade 5 2015-2016**
  - Achievement
  - Growth

**Mathematics**

- PAWS Mathematics Scale Score
- Growth Level
- Percentiles
  - High: 66th - 99th
  - Typical: 35th - 65th
  - Low: 1st - 34th
Individual Student Growth Report

Mathematics

<table>
<thead>
<tr>
<th>Achievement Level</th>
<th>Grade 3 2013-2014</th>
<th>Grade 4 2014-2015</th>
<th>Grade 5 2015-2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scale Score</td>
<td>634</td>
<td>676</td>
<td></td>
</tr>
<tr>
<td>Achievement</td>
<td>Proficient</td>
<td>Proficient</td>
<td></td>
</tr>
<tr>
<td>Growth Percentile</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Growth Level</td>
<td>Typical</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PAWS Mathematics Scale Score

Growth Level Percentiles
- High: 66th - 99th
- Typical: 35th - 65th
- Low: 1st - 34th
Growth & Achievement Report
Growth & Achievement Report

Lucky

Leading

Losing

Learning

Contact: Deb Lindsey
Phone: 307-777-8753
How to Reset your Wyoming Education Fusion Portal password

Here is a helpful video with instructions to retrieve and reset a Wyoming Education Fusion Portal password. To go directly to the video, [click here](#).
<table>
<thead>
<tr>
<th>Data Reporting Links</th>
<th>Accountability Reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>AMAO Determinations State Level</td>
</tr>
<tr>
<td>Accountability</td>
<td>AYP Results - District and School Level</td>
</tr>
<tr>
<td>Finance</td>
<td>Growth and Achievement Report</td>
</tr>
<tr>
<td></td>
<td>Growth and Achievement Report - Demonstration Data Set</td>
</tr>
<tr>
<td>CTE Approved Courses</td>
<td>Student Growth Percentile Distribution by District - Demonstration Data Set</td>
</tr>
<tr>
<td></td>
<td>Student Growth Percentile Distribution by School - Demonstration Data Set</td>
</tr>
<tr>
<td>State Report Cards</td>
<td>WAEA 2013 Pilot Elementary and Middle School Performance Report</td>
</tr>
<tr>
<td></td>
<td>WAEA 2013 Pilot High School Performance Report</td>
</tr>
<tr>
<td></td>
<td>WAEA 2013 Pilot School Performance Overview</td>
</tr>
<tr>
<td></td>
<td>WAEA 2014 Elementary and Middle School Performance Report</td>
</tr>
<tr>
<td></td>
<td>WAEA 2014 Elementary and Middle School Performance Report Summary</td>
</tr>
<tr>
<td></td>
<td>WAEA 2014 High School Performance Report</td>
</tr>
<tr>
<td></td>
<td>WAEA 2014 High School Performance Report Summary</td>
</tr>
</tbody>
</table>
SGP Distribution Reports

Accountability Reports

- AMAO Determinations State Level
- AYP Results - District and School Level
- Growth and Achievement Report
- Growth and Achievement Report - Demonstration Data Set
- Growth and Achievement Report Legend
- Student Growth Percentile Distribution by District - Demonstration Data Set
- Student Growth Percentile Distribution by School - Demonstration Data Set
- WAEA 2013 Pilot Elementary and Middle School Performance Report
- WAEA 2013 Pilot High School Performance Report
- WAEA 2013 Pilot School Performance Overview
- WAEA 2014 Elementary and Middle School Performance Report
- WAEA 2014 Elementary and Middle School Performance Report Summary
- WAEA 2014 High School Performance Report
- WAEA 2014 High School Performance Report Summary
Using the data

- School improvement teams
- Possibilities rather than failures
- All students rather than just “bubble students”
- Inform instruction
- More accessible by general public so the possibility to engage parents in solutions is greater.
Deb Lindsey,
307-777-8753, Deb.Lindsey@wyo.gov

Jessica Steinbrenner
307-777-8568, Jessica.Steinbrenner@wyo.gov

Emily Brantz,
307-777-5296, Emily.Brantz1@wyo.gov

Michelle Carroll,
307-777-3618, Michelle.Carroll@wyo.gov
QUESTIONS?