ACT ASPIRE

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THE UNIVERSITY OF ALABAMA®

DEPARTMENT OF MATHEMATICS

College Readiness - Math

- ACT Benchmark that students have 50% chance of obtaining a B or higher and 75% chance of obtaining a C or higher is credit-bearing first-year college courses.
  - 22
- Current UA placements from ACT
  - 0-17 Math 005
  - 18-23 Math 100 or 110
  - 24-28 Math 112
  - 29 Math 115
  - 30-36 Math 121 or 125

What is the ACT?

- Designed to measure college readiness
- The ACT Mathematics Test is a 60-question, 60-minute test designed to assess the mathematical skills students have typically acquired in courses taken up to the beginning of grade 12.

How are the ASPIRE and the ACT related?

- Based on ACT College and Career Readiness Standards
  - http://www.act.org/standard/planact/math/
- Designed to measure a trajectory

What is the purpose of standardized testing?

- Creates way to compare students/groups
- Provides feedback from outside perspective
- Two main categories
  - Norm Referenced
  - Criterion Referenced

What do scores on standardized tests mean?

- What does readiness mean?
- Growth
- Predictions
- Measurement error

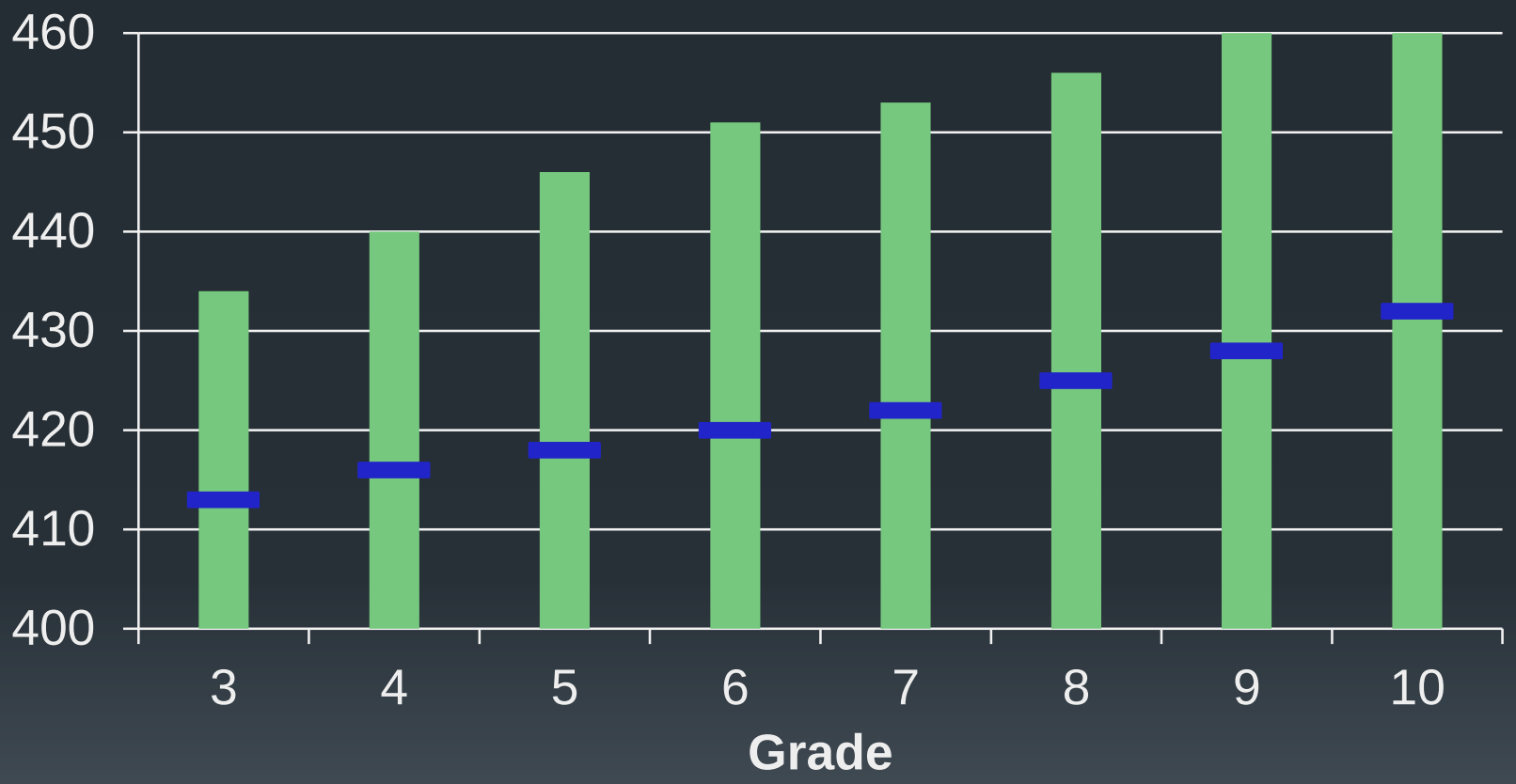
How does the ASPIRE relate to the Alabama CCRS?

What does the ASPIRE look like?

Math

Grades	Selected Response	Technology Enhanced	Constructed Response	Total
Grades 3-5	18-20	6-8	5	31
Grades 6-7	28-30	6-8	5	41
Grade 8	31-34	5-8	6	45
Early High School	31-34	5-8	6	45

ASPIRE Scale Scores



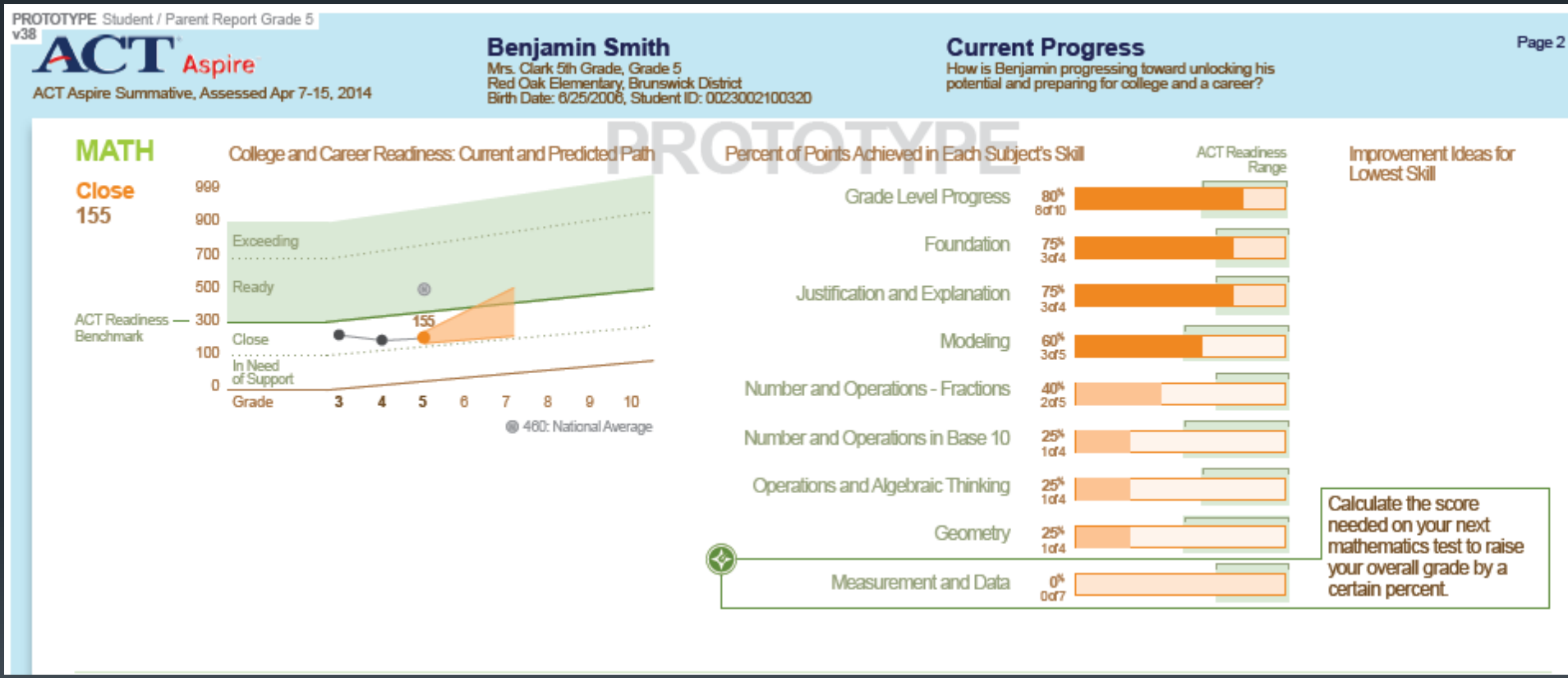
What do the ASPIRE reports look like?

- We will only look at the math portion.
- Details can be found at

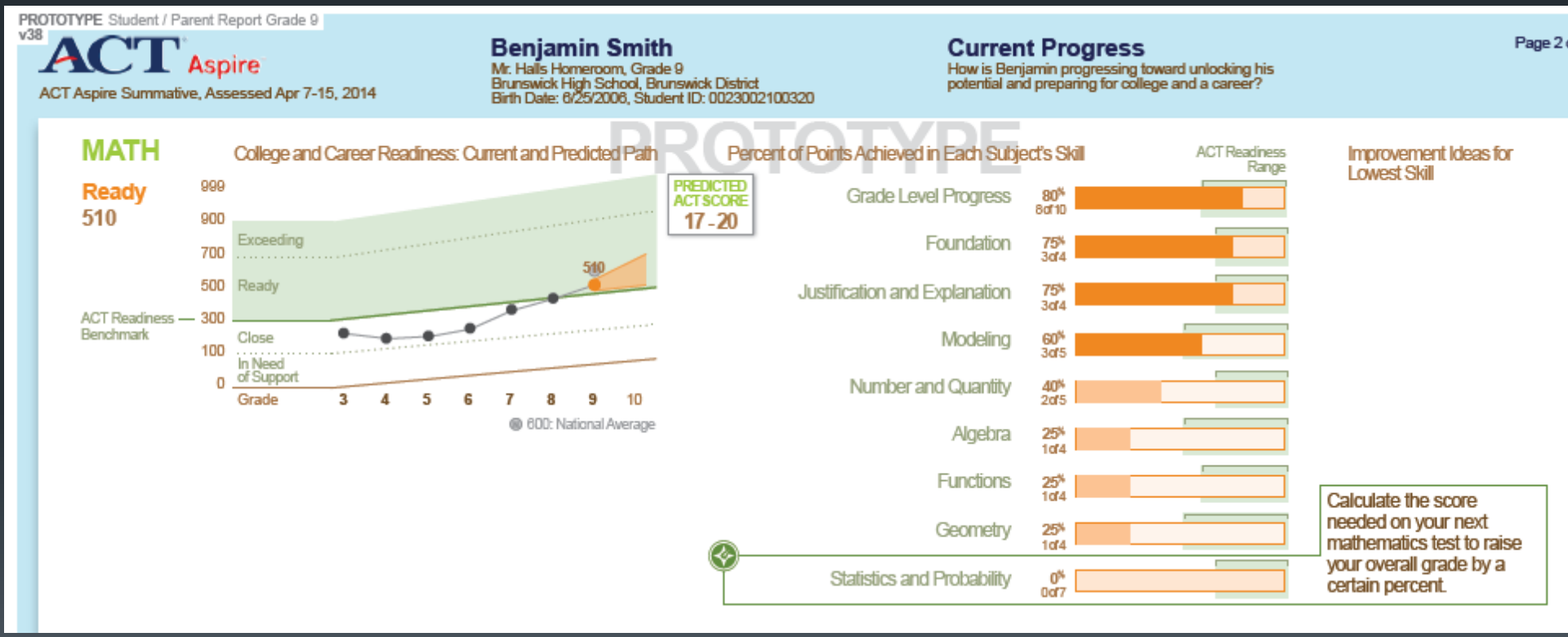
http://act.org/aap/alabama/aspire.html

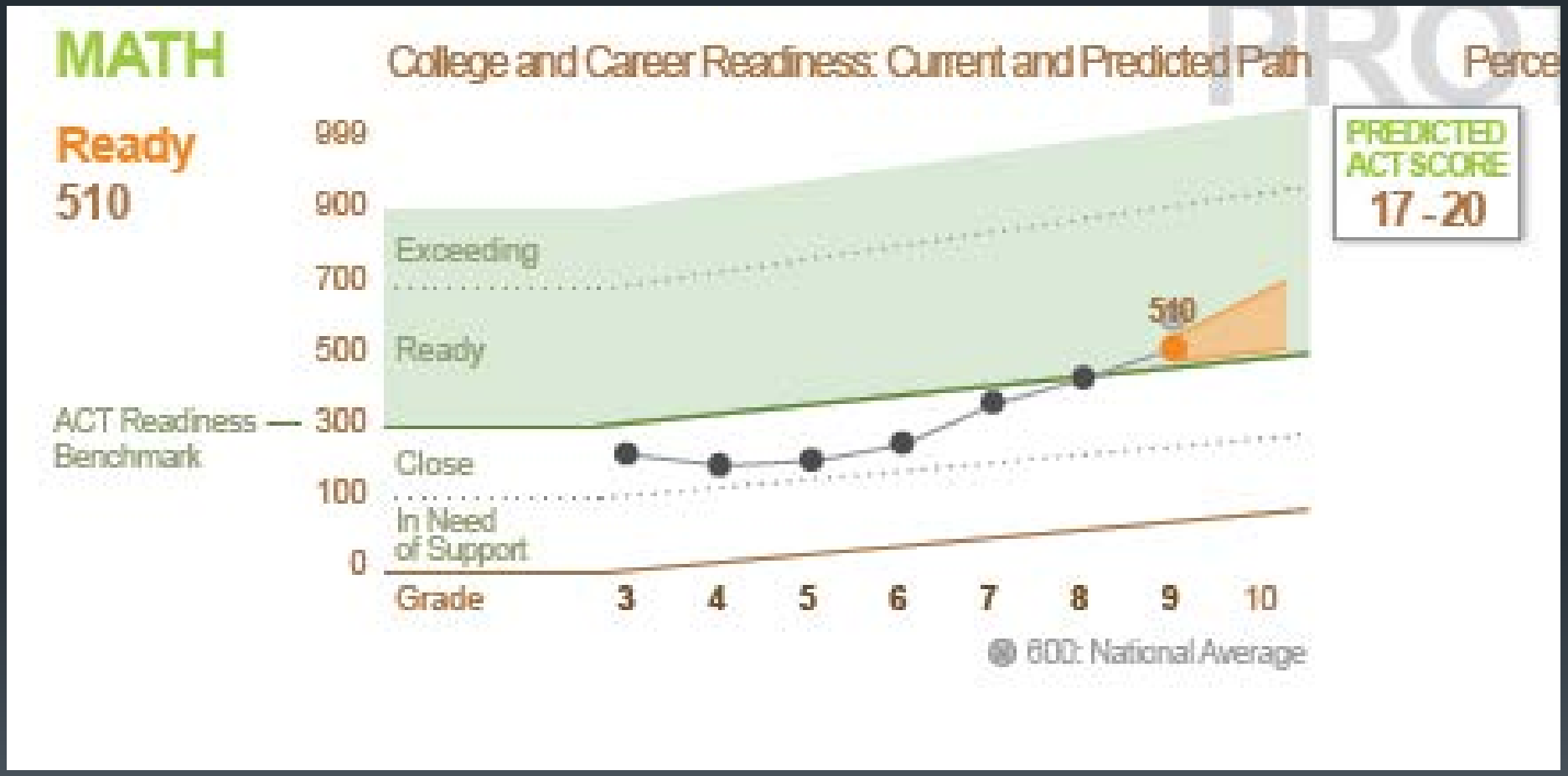
http://www.discoveractaspire.org/

Grade 5 Individual Sample

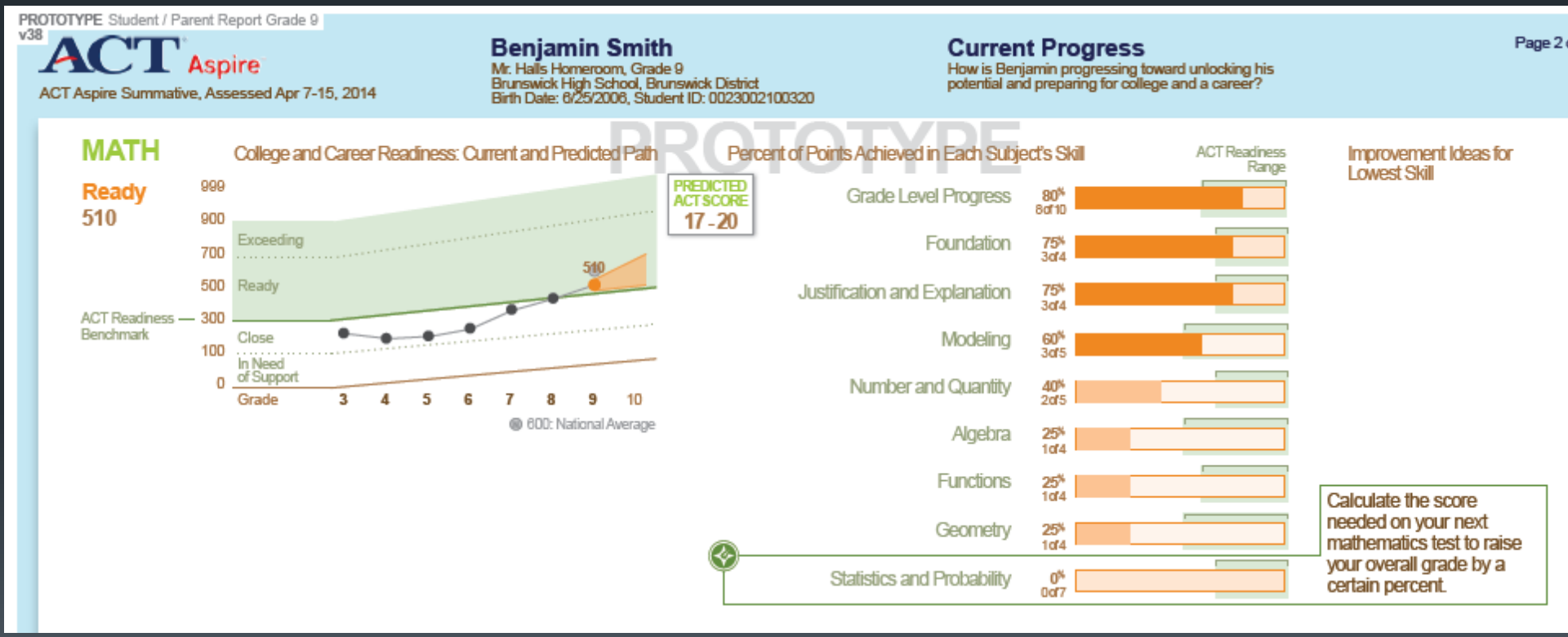


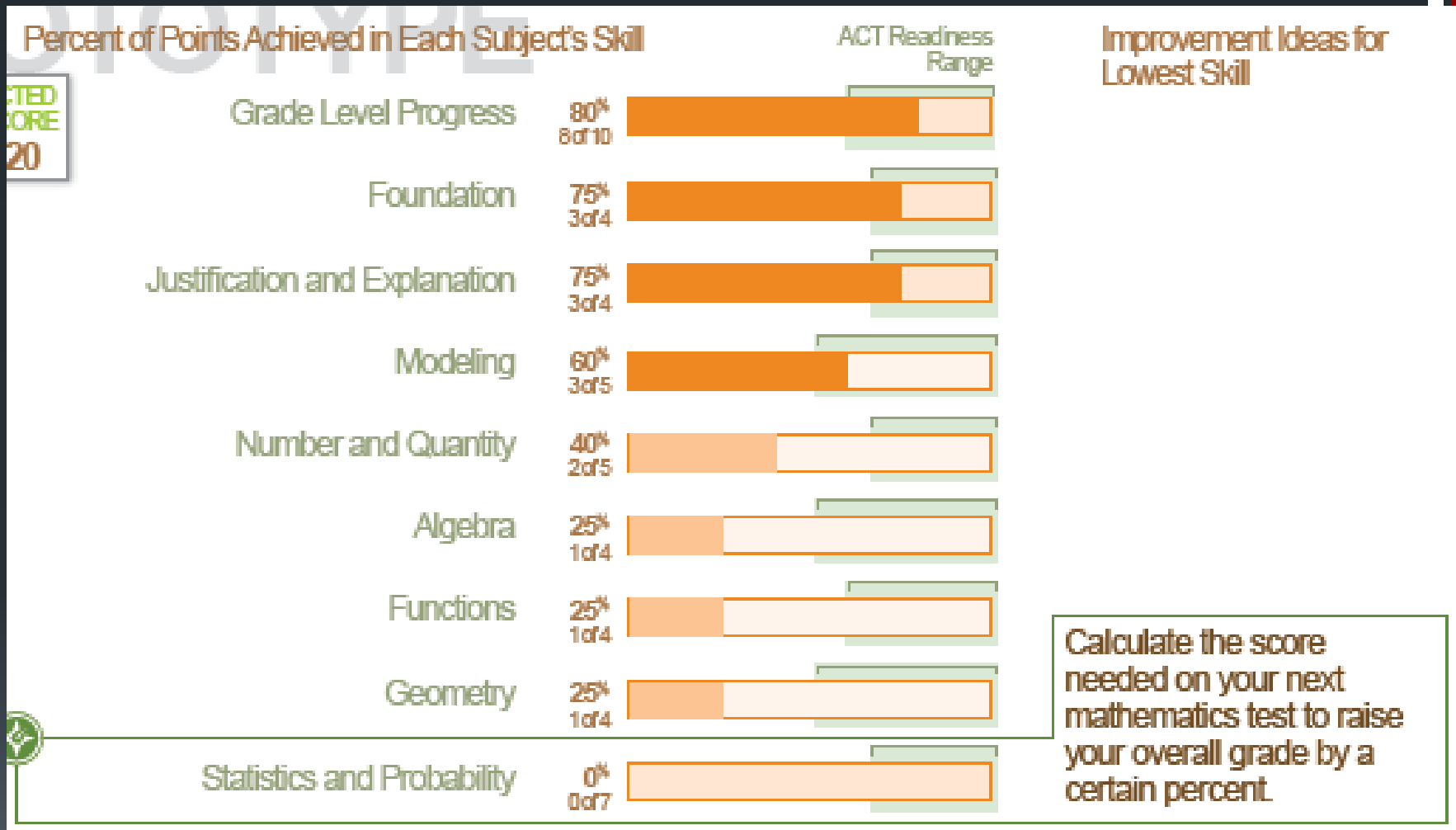
Grade 9 Individual Sample



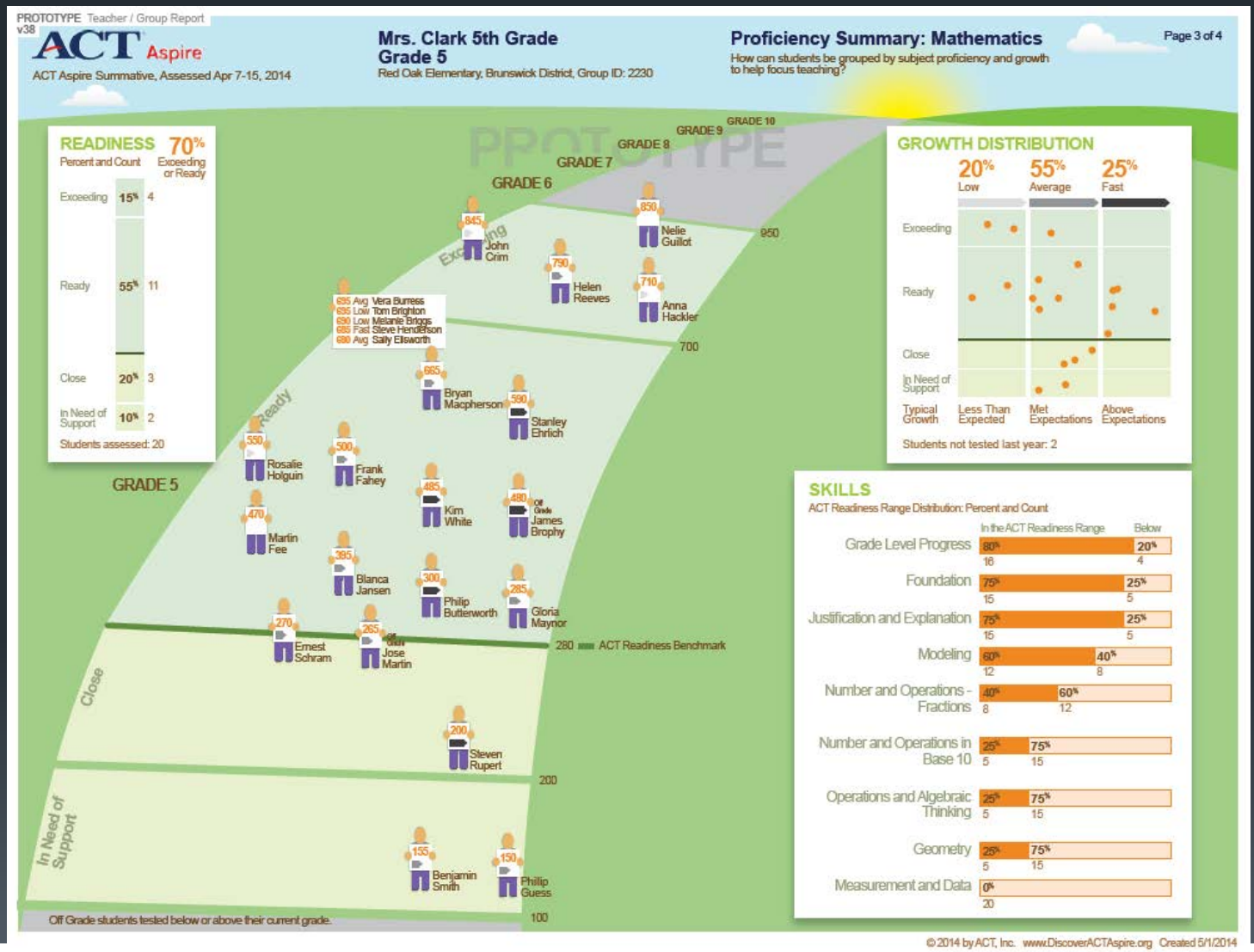

MATH
College and Career Readiness: Current and Predicted Path
Ready
510
999
900
700
500
300
100
0
Exceeding
Ready
Close
In Need of Support
ACT Readiness Benchmark
510
PREDICTED ACT SCORE
17 - 20
Grade
3
4
5
6
7
8
9
10
600: National Average

Grade 9 Individual Sample

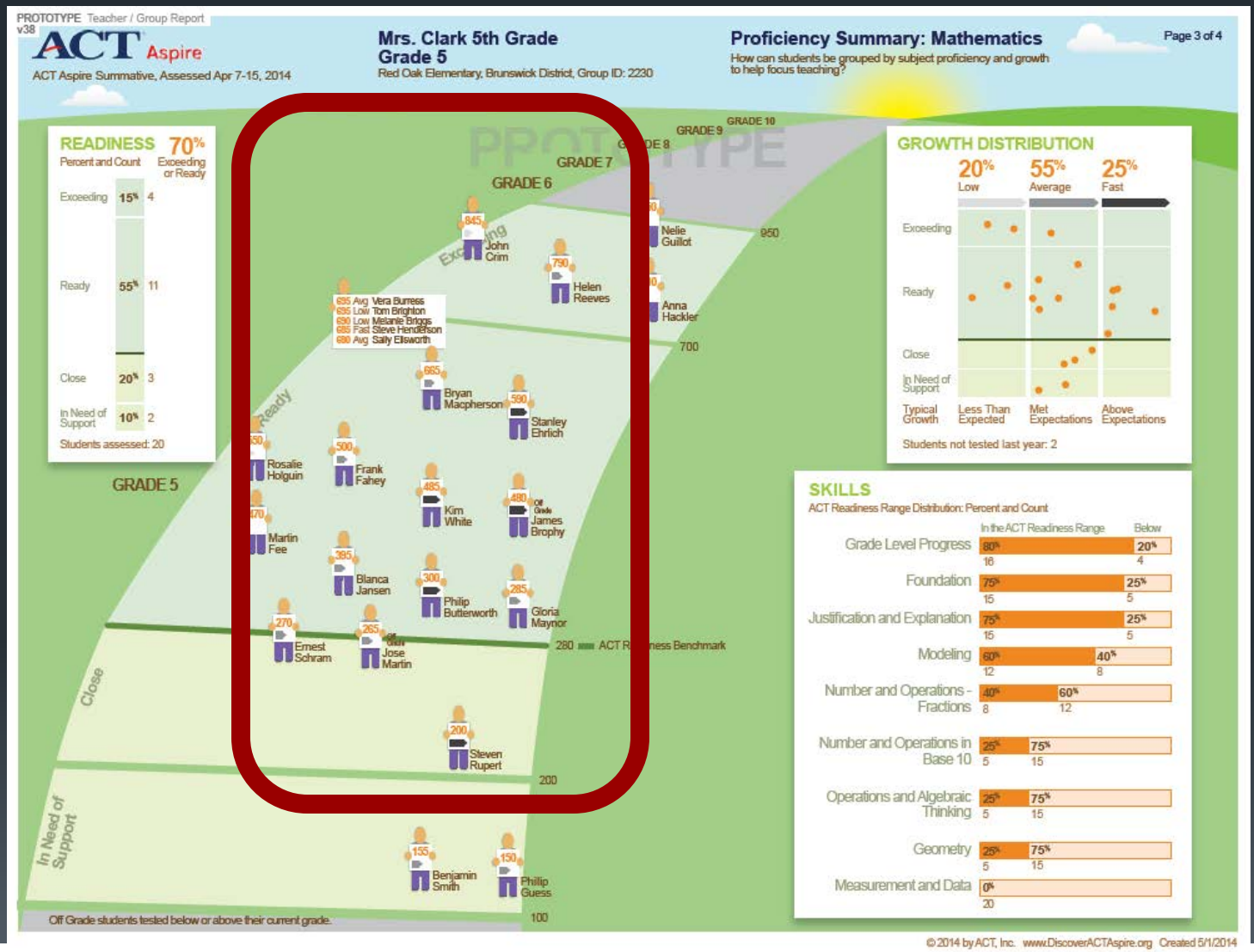


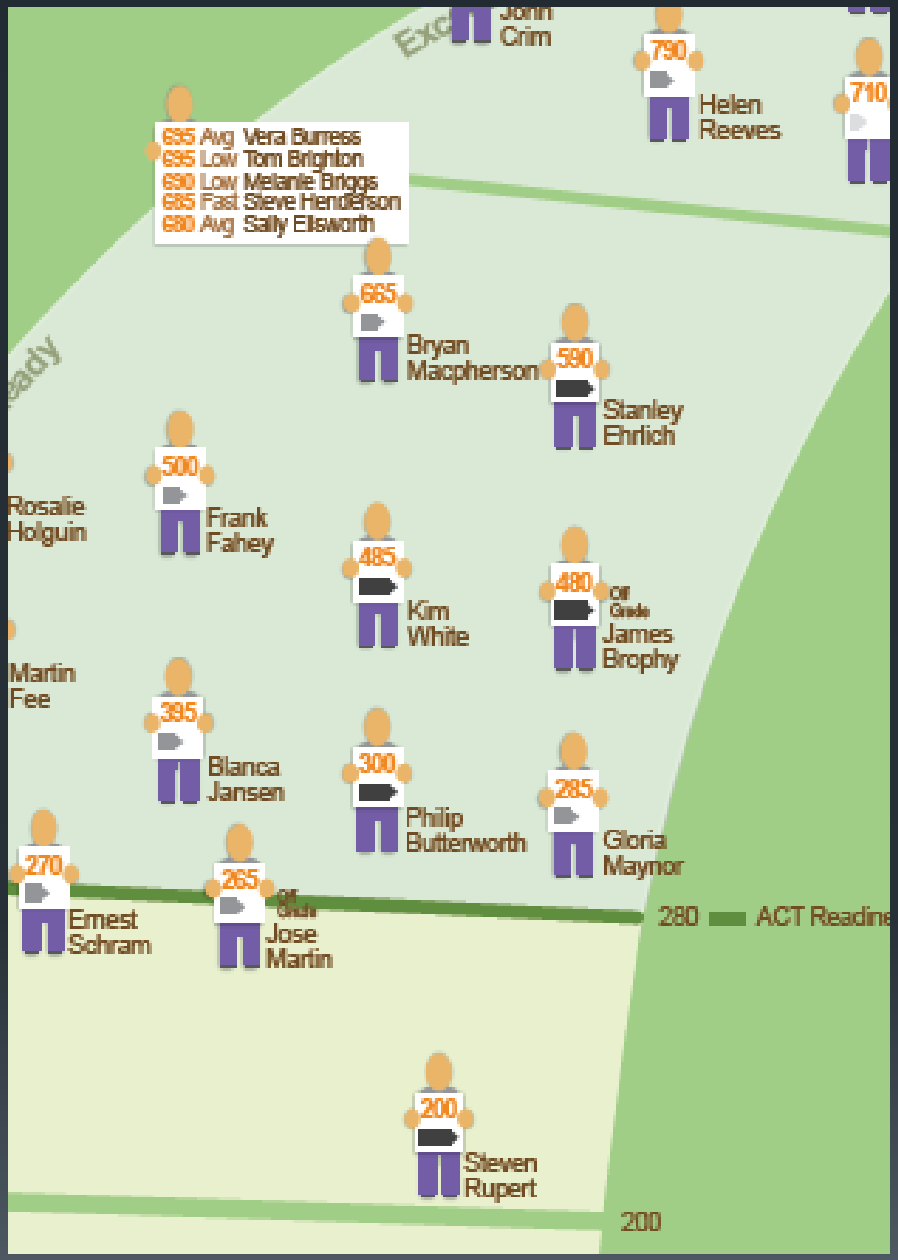

Percent of Points Achieved in Each Subject's Skill
ACT Readiness Range
Improvement Ideas for Lowest Skill
Grade Level Progress
80%
8of10
Foundation
75%
3of4
Justification and Explanation
75%
3of4
Modeling
60%
3of5
Number and Quantity
40%
2of5
Algebra
25%
1of4
Functions
25%
1of4
Geometry
25%
1of4
Statistics and Probability
0%
0of7
Calculate the score needed on your next mathematics test to raise your overall grade by a certain percent.

Grade 5 Class Sample

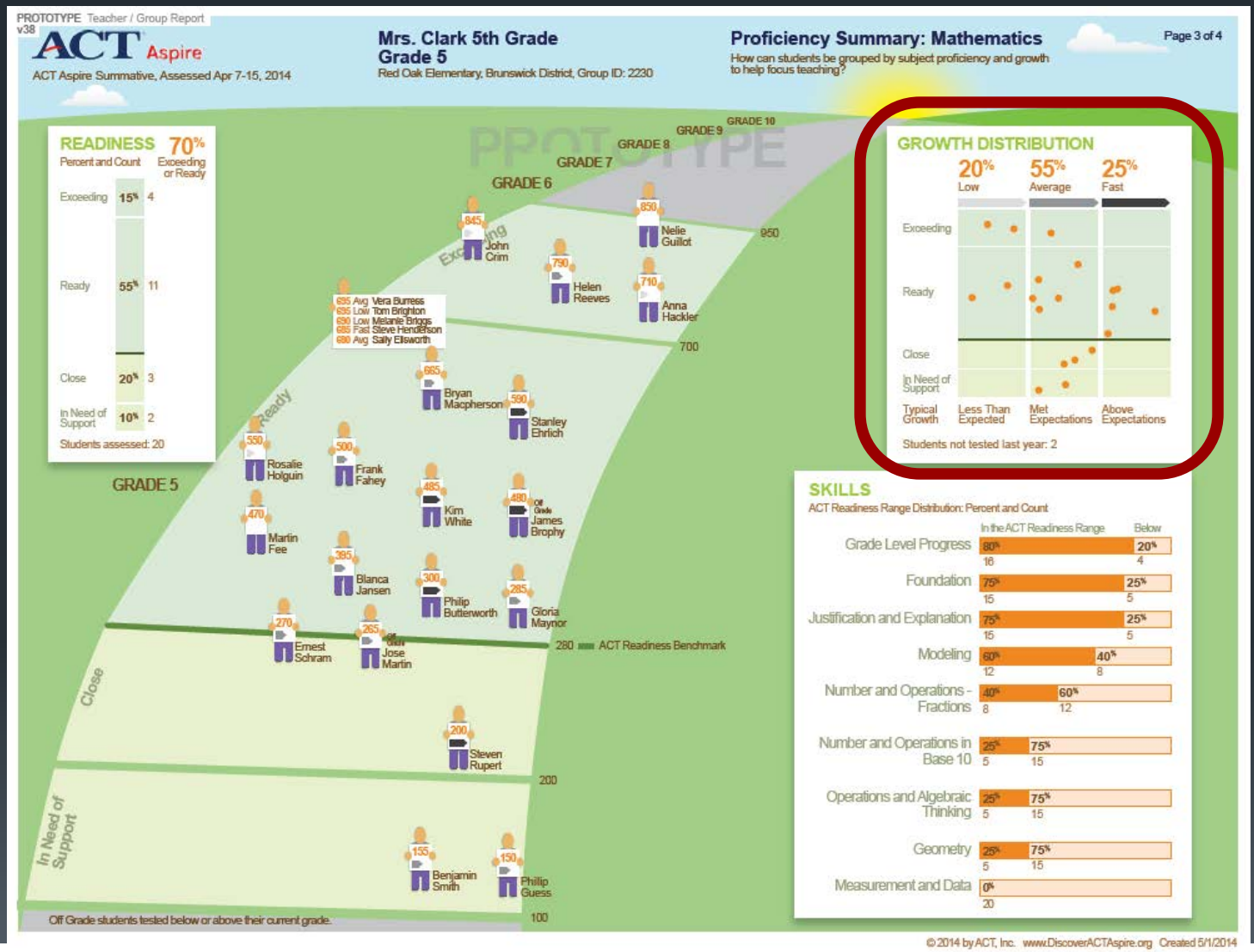


Grade 5 Class Sample



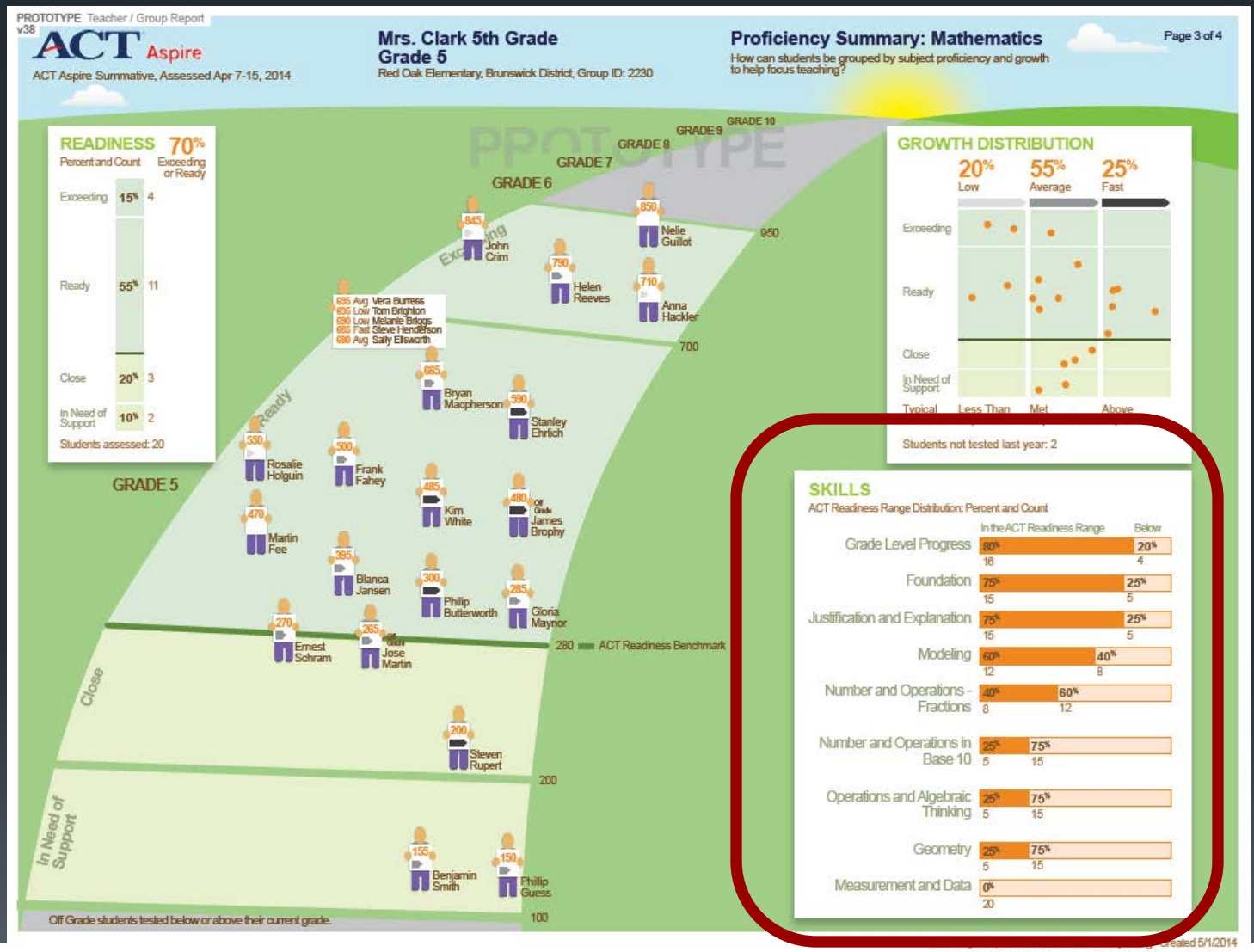

Crim
790
Helen
Reeves
710
635 Avg Vera Burress
635 Low Tom Brighton
630 Low Melanie Briggs
635 Fast Steve Henderson
630 Avg Sally Ellsworth
665
Bryan
Macpherson
590
Stanley
Ehrlich
500
Frank
Fahey
Rosalie
Holguin
485
Kim
White
480
James
Brophy
Martin
Fee
395
Blanca
Jansen
300
Philip
Butterworth
285
Gloria
Maynor
270
Ernest
Schram
265
Jose
Martin
280
ACT Readine
200
Steven
Rupert
200

Grade 5 Class Sample



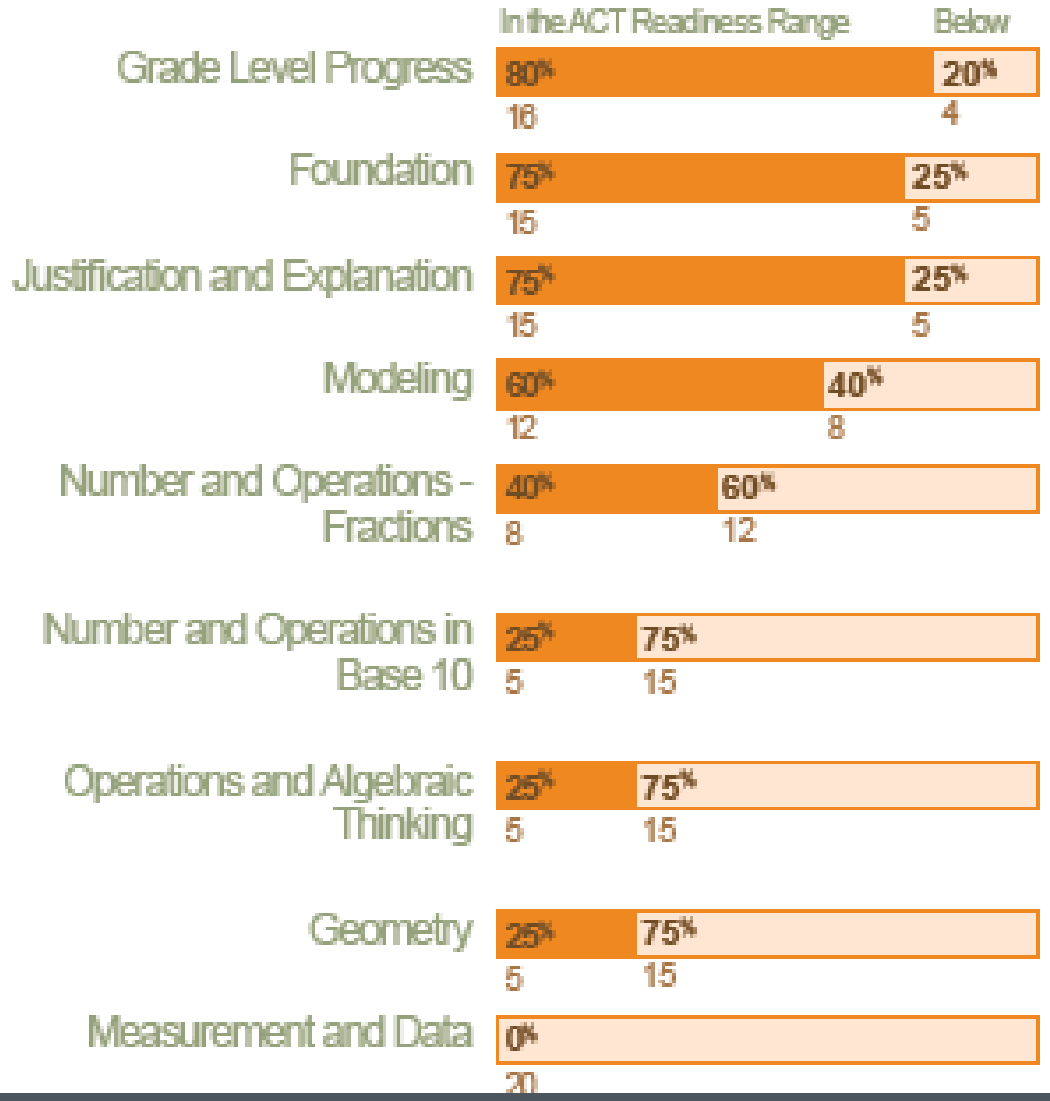
GROWTH DISTRIBUTION
20%
Low
55%
Average
25%
Fast
Exceeding
Ready
Close
In Need of Support
Typical Growth
Less Than Expected
Met Expectations
Above Expectations
Students not tested last year: 2

Grade 5 Class Sample



SKILLS

ACT Readiness Range Distribution: Percent and Count



PROTOTYPE Teacher / Group Report
v38

ACT Aspire

ACT Aspire Summative, Assessed Apr 7-15, 2014

Mrs. Clark 5th Grade
Grade 5
Red Oak Elementary, Brunswick District, Group ID: 2230

Skill Proficiency: Mathematics

How can students be grouped by skill proficiency to help focus teaching?

PROTOTYPE

Highest Skills → Lowest Skills

		Foundation	Grade Level Progress	Justification and Explanation	Modeling	Number and Operations - Fractions	Number and Operations in Base 10	Operations and Algebraic Thinking	Geometry	Measurement and Data
Exceeding	700-950									
Nellie Guillot	850									
John Crim	845									
Helen Reeves	790						□			
Anna Hackler	710									□
Ready	280-699									
Vera Burress	695									□
Bryan Macpherson	665									
Stanley Ehrlich	590									
Rosalie Holguin	550								□	□
Frank Fahey	500					□			□	
Kim White	485			□						□
James Brophy Off Grade	480								□	□
Martin Fee	470							□	□	
Blanca Jansen	395									□
Philip Butterworth	300						□	□	□	
Gloria Maynor	285							□	□	□
Close	200-279									
Ernest Schram	270						□	□	□	□
Jose Martin Off Grade	265				□	□	□			□
Steven Rupert	200			□	□	□	□	□	□	□
In Need of Support	100-199									
Benjamin Smith	155			□	□	□	□	□	□	□
Phillip Guess	150		□	□	□	□	□	□	□	□

How do we use the information from the ASPIRE to improve teaching and learning?

Thank you

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