

2017 SAMPLE ASSESSMENT

# ALGEBRA II FAMILY REPORT

## DAVID CARTWRIGHT

Washington High School

## GRADE 11

Lincoln School District

### ABOUT THIS ASSESSMENT

David took the Sample Assessment in Algebra II in Spring 2017. This test asks students to answer questions that measure the knowledge and skills they need to be prepared for mathematics in college and careers after high school.

If you have questions about this report, please talk to David's teacher or principal, or contact Lincoln School District at **(800) 555-1234**.

### WHAT THE RESULTS MEAN

This report will help you answer many questions about David's knowledge and skills.

- What is David's Overall Score?
- How did David perform compared to other students in Algebra II?
- How well did David learn specific knowledge and skills in Algebra II?
- How likely is it that David is prepared for the next mathematics course, and for college and careers after high school?

## DAVID'S PERFORMANCE ON THE ALGEBRA II ASSESSMENT

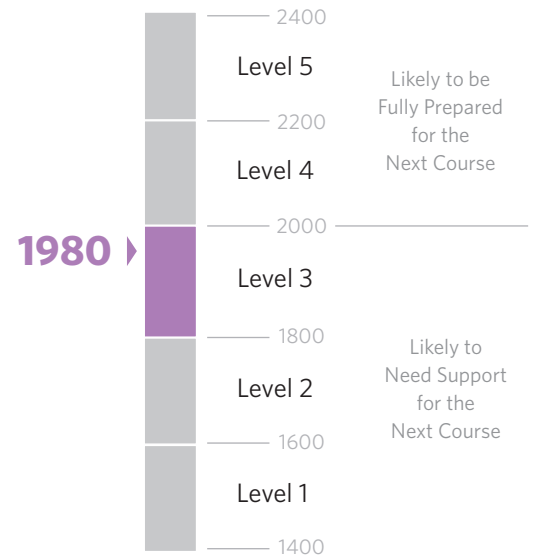
### PERFORMANCE LEVEL



### OVERALL SCORE

1980

Students who score in Level 3 show **Moderate Understanding** of the Algebra II course standards. They are likely to need additional support to be fully prepared, without need for remediation, for mathematics in college and careers after high school. These students should talk to their teachers and counselors about how to get extra help and course selection for the remainder of high school.



**Level 5** Very strong understanding, highly likely to be fully prepared

**Level 4** Strong understanding, likely to be fully prepared

**Level 3** Moderate understanding, likely to need additional support to be fully prepared

**Level 2** Partial understanding, likely to need substantial support to be fully prepared

**Level 1** Minimal understanding, highly likely to need substantial support to be fully prepared

### NEXT STEPS

Turn to the second page to learn more about David's knowledge and skills in Algebra II. You will also find more information about his mathematics scores for the last two years, and information about the scores for other Algebra II students in his school, district and state.

**The most important thing a student can do to be prepared for college and careers is to keep taking mathematics throughout high school.**

ALGEBRA II SCORING CATEGORIES

| POLYNOMIAL EXPRESSIONS & EQUATIONS   | TRIGONOMETRIC FUNCTIONS  | FAMILIES OF FUNCTIONS  | STATISTICAL & PROBABILITY MODELS  | PROBLEM SOLVING & COMMUNICATION                                 |
|--|--|--|---|---|
| <b>At/Above Mastery</b><br>  | <b>Below Mastery</b><br>   | <b>Below Mastery</b><br>   | <b>Below Mastery</b><br>  | <b>At/Above Mastery</b><br>                                     |
| Demonstrates understanding effective use of polynomials and polynomial equations | Needs additional support to demonstrate understanding and effective use of trigonometric functions | Needs additional support to demonstrate understanding and effective use of diverse functions | Needs additional support to demonstrate understanding and effective use of statistical and probabilistic modeling | Demonstrates effective problem solving and communication skills |

DAVID'S PERFORMANCE COMPARED

Percent of students in each Performance Level.

David's Level ■

|                | Washington High | Lincoln District | Jefferson State | Consortium States |
|----------------|-----------------|------------------|-----------------|-------------------|
| Level 5        | 06%             | 10%              | 08%             | 10%               |
| Level 4        | 24%             | 32%              | 20%             | 26%               |
| <b>Level 3</b> | <b>40%</b>      | <b>36%</b>       | <b>42%</b>      | <b>38%</b>        |
| Level 2        | 22%             | 18%              | 18%             | 20%               |
| Level 1        | 08%             | 04%              | 12%             | 06%               |

Consortium States:

Adams, Franklin, Hancock, Hamilton, Jefferson

DAVID'S PERFORMANCE LEVEL OVER THE PAST 3 YEARS



DAVID'S STRENGTHS & AREAS FOR IMPROVEMENT

David's strengths are in these areas:

*Polynomial Expressions*

- Performing arithmetic operations on polynomials
- Representing and solving equations and inequalities with graphs

*Problem Solving & Communication*

- Using algebraic expressions to understand and solve equations and problems
- Explaining the path and the results for a solution to problems

**You can ask David's teachers:**

What can we do at home, in class, at school to help him continue building his knowledge and skills in these areas?

David needs to improve his knowledge and skills in these areas:

*Trigonometric Functions*

- Modeling with trigonometric functions
- Applying trigonometric identities

*Families of Functions*

- Analyzing functions using different representations
- Identifying functions to model a relationship between two variables
- Comparing linear, quadratic, and exponential models

*Statistical & Probability Models*

- Making inferences from sample surveys, experiments, and observational studies
- Using probability to evaluate the outcomes of decisions

**You can ask David's teachers:**

What extra support at home, in class, at school does David need so he can improve his knowledge and skills in these areas? Will you go over these results with David so he understands what he needs to do to be fully prepared?