



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 11 COURSE NAME: Precalculus
MEASUREMENT TOPIC: Represent Complex Numbers and their Operations

4

In addition to Score 3, the student makes in-depth inferences and applications.

3

The student will:

- **Convert between rectangular and polar form.**
- **Perform operations on complex numbers in polar form.**

2

The student will:

- Explain why the rectangular and polar forms of a given complex number represent the same number.
- Calculate the distance between complex numbers.
- Perform operations on complex numbers (in the form $a + bi$) which includes determining the conjugate of complex numbers.
- Represent complex numbers as rectangular and polar points.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: