Fairfax Collegiate

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TJ Exam Prep 7-8 Syllabus

Course Goals

1 Mathematical Reasoning
Students review and practice concepts covered on the Quant-Q Mathematics test, which is the basis for the first section of the TJ Admissions Exam.

2 Reading Comprehension
Students review and practice concepts covered on the ACT Aspire Reading test, which is the basis for the second section of the TJ Admissions Exam.

3 Scientific Thinking
Students learn, review and practice concepts covered on the ACT Aspire Science test, which is the basis for the final section of the TJ Admissions Exam.

4 Test-Taking Strategies
Students learn strategies for optimizing their performance under the pressure of timed, standardized tests such as the TJ Admissions Exam.

5 TJ Admissions Process
Students learn about the details and deadlines for each of the rounds of the admissions process.

6 Life at TJ
Students learn about what it's like to be a student at TJ, including detailed information about opportunities, school culture, extracurriculars, and anything else they'd like to know. As TJ graduates, our instructors are able to answer these questions with first-hand knowledge.

Course Topics

1 ACT Aspire Reading
Students make inferences, identify point-of-view, notice details, find main ideas, draw cause/effect, and organize sequences of events in fiction and nonfiction passages.

2 ACT Aspire Science
Students grow in their ability to understand, evaluate and interpret information in graphs, tables, scientific research summaries, experiments, and conflicting hypotheses.

3 Quant-Q Math - Out of the Box Algebra
Students apply algebra concepts to real-life scenarios.

4 Quant-Q Math - Probability & Combinatorics
Students determine possible arrangements, groupings, and outcomes of a given set of elements and find the probability that certain outcomes within that set will occur.

5 Quant-Q Math - Patterns
Students identify mathematical patterns and sequences.

6 Quant-Q Math - Geometry & Optimization
Students learn and implement area and volume formulas, the Pythagorean Theorem, geometric ratios, and similar concepts.

Updated on 6/16/2019