

**RIDGECROFT SCHOOL
SPORTS TOPICS**

Sports topics, is an enrichment elective course for middle school students that focuses on the mathematics and the science involved in sports. Students will investigate such related areas as sports statistics, ball bouncing dynamics, the geometry of shooting a basketball, rebound of different balls, change of heart rate with exercise, aerodynamics of football and other balls, and the statistics of scoring.

Students will read and discuss articles about sports and explore the applications of math and science and history to sports. Many types of resources including printed materials, newspaper articles, and magazines will be used. Types of activities will include hands-on activities, field trips, worksheets, research projects, and/or guest lecturers.

Students will be graded on participation, multiple choice quizzes, essays, projects, Powerpoint investigations, and other documentation.

GOALS

Goal 1: The learner will understand how mathematics is used in sports
Goal 2: The learner will understand how science is used in sports.
Goal 3: The learner will become a better reader and be able to comprehend more information from resources.
Goal 4: The learner will use sports to develop leadership and character qualities.
Goal 5: The learner will study sports in context of history.
Goal 6: The learner will appreciate the value of competition and goal setting.