Grade 6, Technical Subject, Physical Education

Standards:

CA CCSS Writing Standards for Literacy in Science and Technical Subject (WHST)

6.7: Conduct short research projects to answer a question (including a self-generated question), drawing on several sources and generating additional related, focused questions that allow for multiple avenues of exploration.

6.8: Gather relevant information from multiple print and digital sources (primary and secondary), using search terms effectively; assess the credibility and accuracy of each source; and quote or paraphrase the data and conclusions of others while avoiding plagiarism and following a standard format for citation. CA

6.9: Draw evidence from informational texts to support analysis, reflection, and research.

Grade 6, Technical Subject: Physical Education

Standard 2: Manipulative Skills

Benchmark 2.8: Illustrate how the intended direction of an object is affected by the angle of the implement or body part at the time of contact.

Lesson Idea:

In this example students will meet the intent of the physical education content standard by illustrating a novel example of how the intended direction of an object is affected by the angle of the implement or body part at the time of contact.

In preparation for providing an illustration, students will work collaboratively with informational text and diagrams depicting the effect of a ball striking a tennis racket at different angles of attack and how the angle of the face of the tennis racket (implement) affects the trajectory of the ball at the time of contact. A diagram will show three different angles of the implement with a ball pathway coming directly at the face of the racket. Students will discuss the diagrams of the angles of the implement and the resultant direction of the ball in all three cases. Students will appropriately use technical terms, such as open, closed and perpendicular tennis face angle of contact, describe the resulting action of the ball and how linear momentum in combination with angle affect the intended direction of the ball (object).