



## Winning With Science: Free Throw Workshop Grades 3 - 5

### Subject Areas Covered:

Forces & Motion, Innovative Designer, Global Collaborator, Comprehension and Collaboration.

### Workshop Description:

Students will explore the motion of a basketball when scoring a three-point throw and will observe and measure the basketball's motion to recognize a pattern, record data and make predictions. Will they be able to score a perfect basket every time?

### Education Standards:

#### NGSS 3-PS2-2

**Next Generation Science Standards – Grade 3, Forces and Motion.** Students who demonstrate understanding can; Make observations and measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

#### ISTE 4c

**ISTE Standards for Students – Innovative Designer.** Students develop, test and refine prototypes as part of a cyclical design process.

#### ISTE 7c

**ISTE Standards for Students – Global Collaborator.** Students contribute constructively to project teams, assuming various roles and responsibilities to work effectively toward a common goal.

#### CCSS.ELA-LITERACY.SL.3.1

**Common Core – Speaking and Listening.** Students engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 3 topics and texts, building on others' ideas and expressing their own clearly.

