

## NGSS Correlations

### Putt Putt Steam Boat SB-100

#### Elementary

##### K-PS2-2

The Putt Putt Steam Boat can be loaded with water and candle fired up to investigate to movement. Students can analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

##### 2-PS1-2

The Putt Putt Steam Boat can be loaded with water and candle fired up investigate to movement. Students can analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.

##### 3-PS2-2

The Putt Putt Steam Boat can be loaded with water and candle fired up investigate to movement. Students can make observation and/or measurements of an object's motion to provide evidence that a pattern can be used to predict future motion.

#### Middle School

##### MS-PS2-2

The Putt Putt Steam Boat can be loaded with water and candle fired up to investigate movement. Students can plan an investigation to provide evidence that the change in an object's motion depends on the sum of the forces on the object and the mass of the object.

#### High School

##### HS-PS2-1

The Putt Putt Steam Boat can be loaded with water and candle fired up to investigate movement. Students can plan an investigation; analyze data to support the claim that Newton's Second Law of Motion describes the mathematical relationship among the net force on a macroscopic object, its mass, and its acceleration.

### **Suggested Science Idea(s)**

The Putt Putt Steam Boat can be loaded with water and candle fired up to demonstrate basic principles of Newton's Laws to students.

**K-PS2-2**

**2-PS1-2**

**3-PS2-2**

**MS-PS2-2**

**HS-PS2-1**

The Putt Putt Steam Boat can be loaded with water and candle fired up to investigate movement. Students can run trials to determine which variable gives the best push to the boat. Races are a natural way for students to test their ideas. Students can make observations and/or measurements of the boats' motions to find pattern that can be used to predict future motion and provide evidence that the change in an object's motion is related to the sum of the forces on the object and the mass of the object.

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