

## NGSS Correlations

### Balloon Helicopter AIR-610

#### Elementary

##### 3-PS2-2

Students can use the Balloon Helicopter to make observations 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

Students can use the Balloon Helicopter to 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

Students can use the Balloon Helicopter to investigate and 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)

##### 3-PS2-2

##### MS-PS2-2

##### HS-PS2-1

When the balloon is inflated and released with the Balloon Helicopter, observable and measurable results help students in their understanding of forces.

##### 3-5-ETS1-3

Students can use the Balloon Helicopter to investigate many problems regarding forces and interactions. Fascinating trials to study flight, gravity, force and motion. Newton's Laws of Motion in action.

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