



ForceCourse Pulley Set

\$379.00

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Product Description

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Pulleys are an integral part of today's engineering and construction industries due to their ability to distribute the load of an object and reduce the force required to move it. But which pulley design is best? With ForceCourse™, students discover how different pulleys produce different mechanical advantage, and compare three major types of pulley systems used frequently in real-world design—fixed, movable, and compound pulleys. Start by setting up the 60"H durable yet lightweight ABS frame in your classroom, gymnasium, or even outside. Then engage students in exciting hands-on experimentation, solidifying abstract physics concepts through visual and tactile reinforcement. Students will build all three pulley systems, place weighted bags in a bucket, then lift it using each system while observing the variances in force required. Next, challenge small groups to use trial and error to design and build the pulley system they think will produce the highest mechanical advantage. Challenge older students to take it a step further, integrating math to calculate the reduction of force based on the number of pulleys in a compound system. Everyone can test their inventions in 4 pulley stations, encouraging collaboration for better learning and comprehension. Includes enough parts to build one of each kind of pulley simultaneously. Pulley system is 20 lb. Patent pending.

Kit includes:

- ABS Frame (47.5"L x 47.5"W x 64"H), 1 Ea
- Buckets, 4 Ea
- Weighted Bags (4" sq/50 g to 6" sq/1,000 g), 4 Sets of 5
- Ropes (11'6"L), 4 Ea
- Pulleys, 16 Ea
- Carabiners, 16 Ea
- Lesson Direction

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