

## 12015 Magnetic Pucks

**Purpose:**

For use on an air table to study non contact elastic collisions and scattering.

**Contents:**

Two (2) Magnetic Pucks

**Additional Required Materials:**

Air Table

**Assembly:**

The pucks, in a set of two, are complete as supplied and can only be used in a repelling mode. The magnet is

exposed on the underside where its carefully machined surface provides the flatness necessary for clearance when used on an air table. The magnets used are the largest that can be supported by most air tables and were chosen to provide a strong field.

The center of the puck provides a North-seeking pole while the circumference a South-seeking pole. The pucks will not work up side down. The top of each puck has a label that is useful for visual observation and for photography. A white dot keeps track of the rotational position of each puck, should this be important.

To demonstrate scattering experiments, one of the pucks can be taped to the table top and used as a target at which the second puck is launched. Trajectories can be observed using strobe photography, video capture or blurred time exposures.

**Time Allocation:**

To prepare this product for an experimental trial should take less than two minutes. Actual experiments will vary with needs of students and the method of instruction, but are easily concluded within one class period.

**Feedback:**

If you have a question, a comment, or a suggestion that would improve this product, you may call our toll free number.

