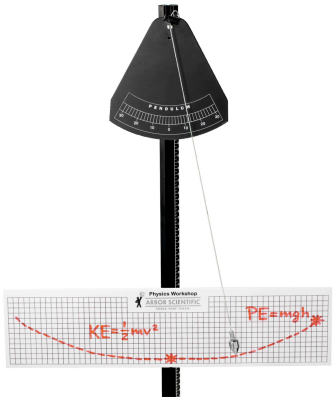



# Pendulum Lab

P4-1700

## KIT CONTENTS:

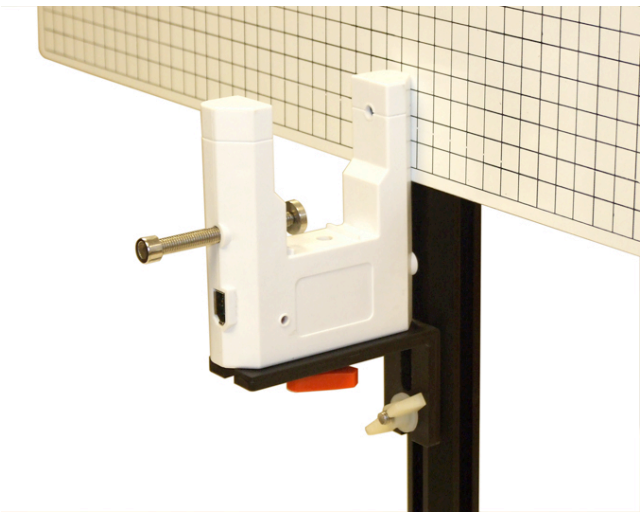
Pendulum Face
String, approx 1 meter
Cylindrical Bob (aluminum)
Cylindrical Bob (steel)
Centimeter Grid Board
1 Thumb Bolts
1 Small Attachment Hex Bolt AD021c
1 Nylon Wing Nut AD021d
Pinch Clamp

## ALSO UTILIZES:

**Workshop Stand** (P4-1901)
**Timer and Photogates** (P4-1450)
**Meterstick** (P1-1070)
**Timer/Stopwatch** (52-3200)

## ASSEMBLY:

1. A photogate can be attached by sliding the small attachment bolt (AD021c) down the channel in the workshop stand on the same side as the pendulum is mounted on and fastening a photogate mount to this bolt with the nylon wing nut (AD021d).





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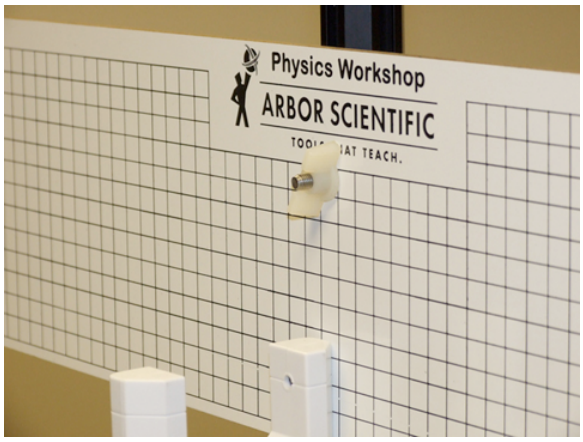
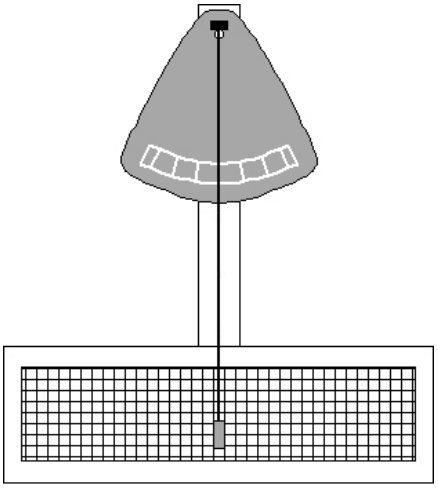
2. Grid Board (for selected experiments): Slide the small attachment bolt (AD021c) down the channel in the workshop stand which is on the same side as the pendulum is mounted on. Insert the protruding bolt through the hole in the grid board, slide it up or down in the workshop stand channel to the desired height, and tighten firmly with the nylon wing nut (AD021d).




3. Push the largest thumb bolt through the top hole of the Workshop Stand.
4. Screw the bolt into the back of the Pendulum, so that the printed side faces out.
5. Use the pinch clamp to support the string, and attach one of the cylindrical bobs to the string. Adjust the pinch clamp to create the desired pendulum length.

6. Align the Pendulum Face and Grid Board by using the string as a plumb bob. Face the stand, close one eye, and turn the pieces as needed so that the vertical lines are aligned with the string. Adjust the stand leveling bolts if necessary.





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