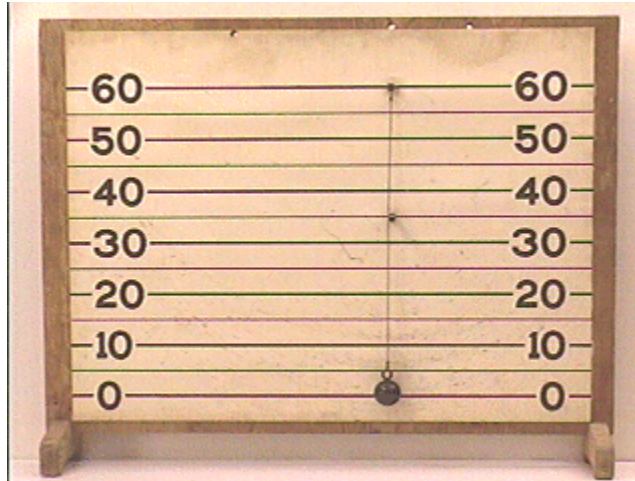


## Question #109

A pendulum, shown in the photograph below, is lifted to the 30 cm level toward the left of the picture and released. When it falls down to its minimum level, just below the suspension point, it encounters a peg at the 35 cm level. What will then happen? In particular, how high will the pendulum rise as it moves to the right? When the string hits the peg, how will that encounter effect the angular momentum? Will it be sufficiently increased such that it will rotate over the pin?



Click your mouse on the photograph to see the pendulum bob fall to the bottom (at half speed).

The pendulum bob will:

- (a) rise to a height less than 30.
- (b) rise to a height of 30.
- (c) rise to a height of greater than 30.
- (d) loop around the lower peg.

Click here for [Answer #109](#) after March 25, 2002.

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For questions and comments regarding the *Question of the Week* contact [Dr. Richard E. Berg](#) by e-mail or using phone number or regular mail address given on the [Lecture-Demonstration Home Page](#).