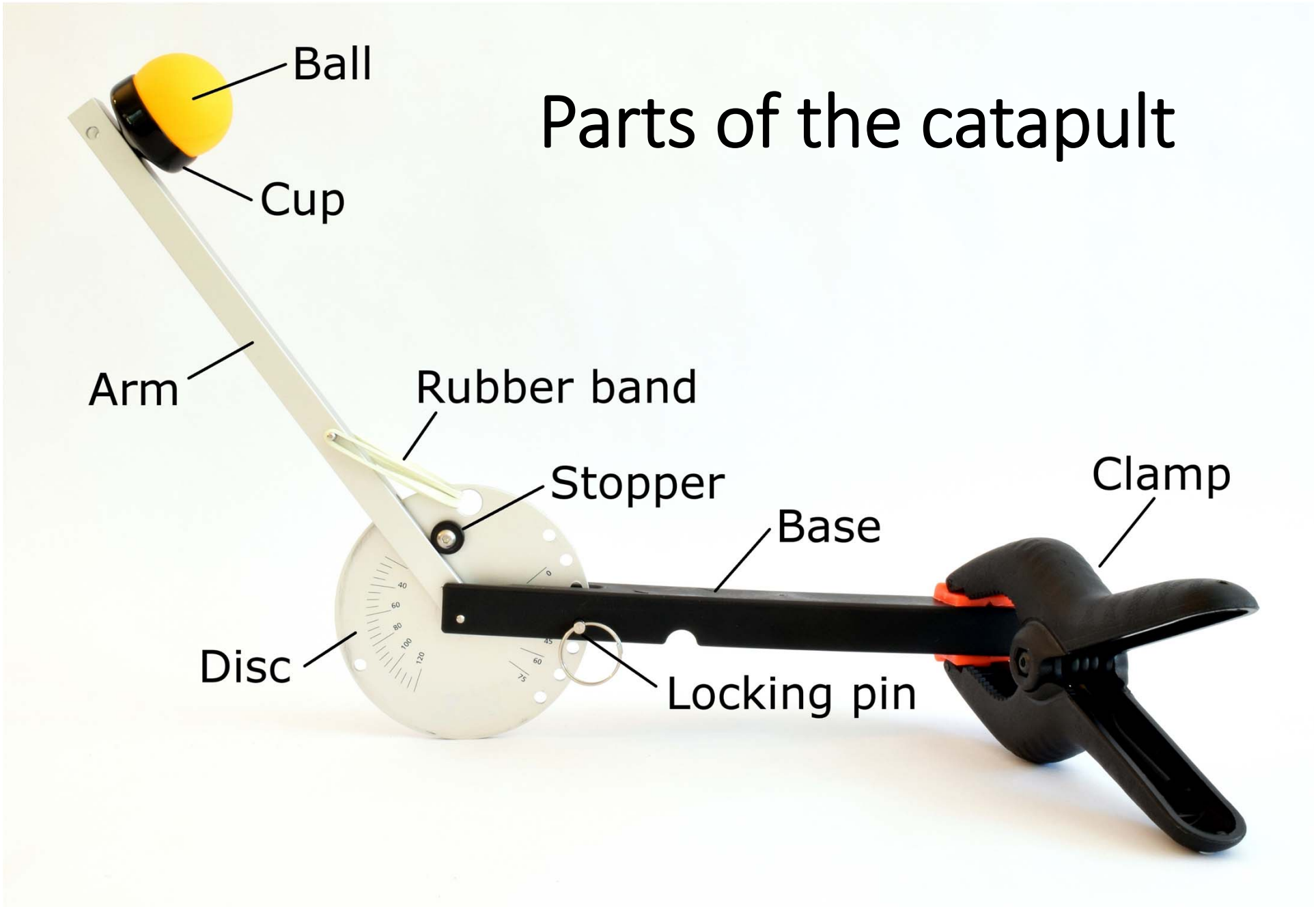
Ping Pong Catapult



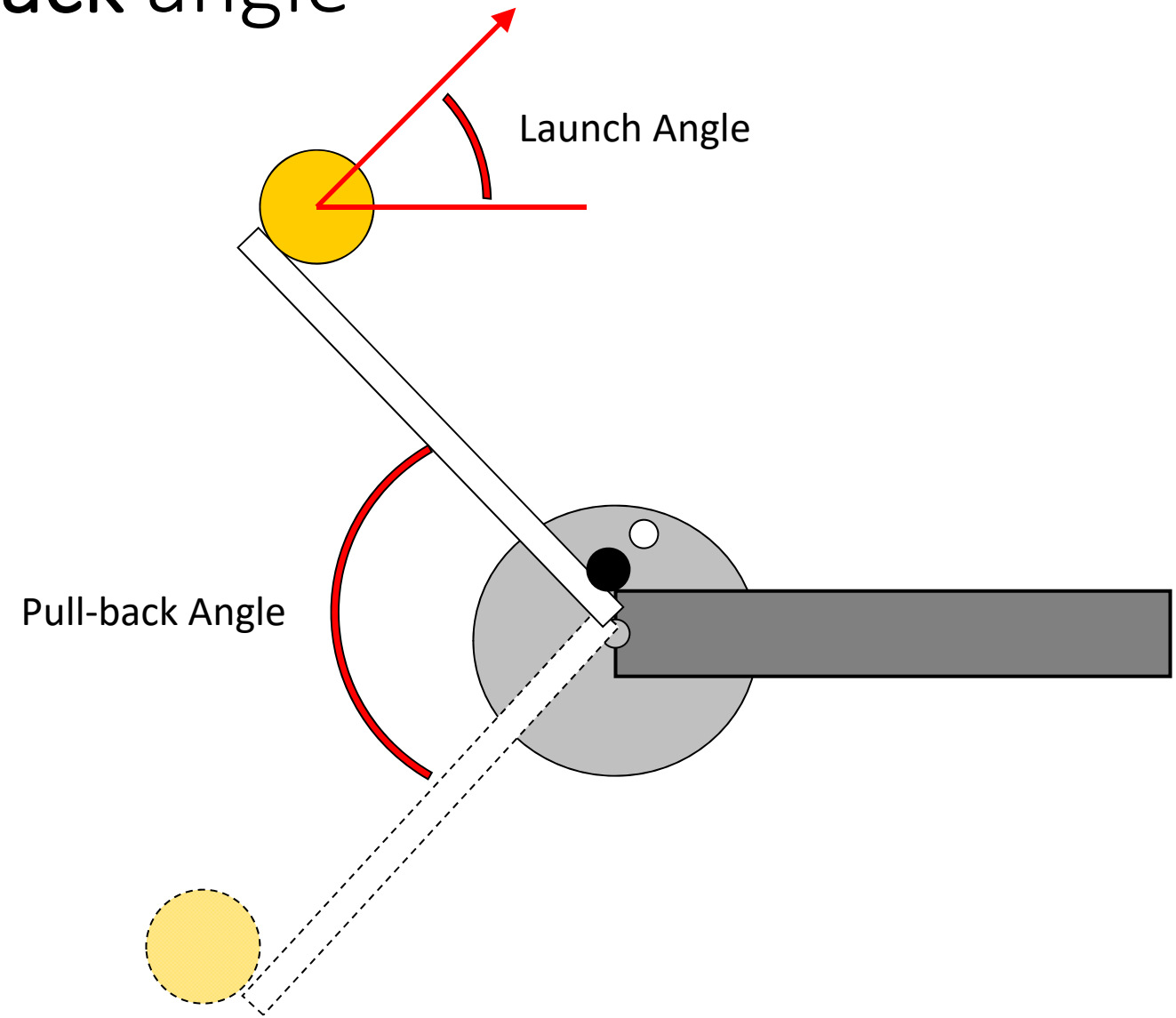
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Parts of the catapult



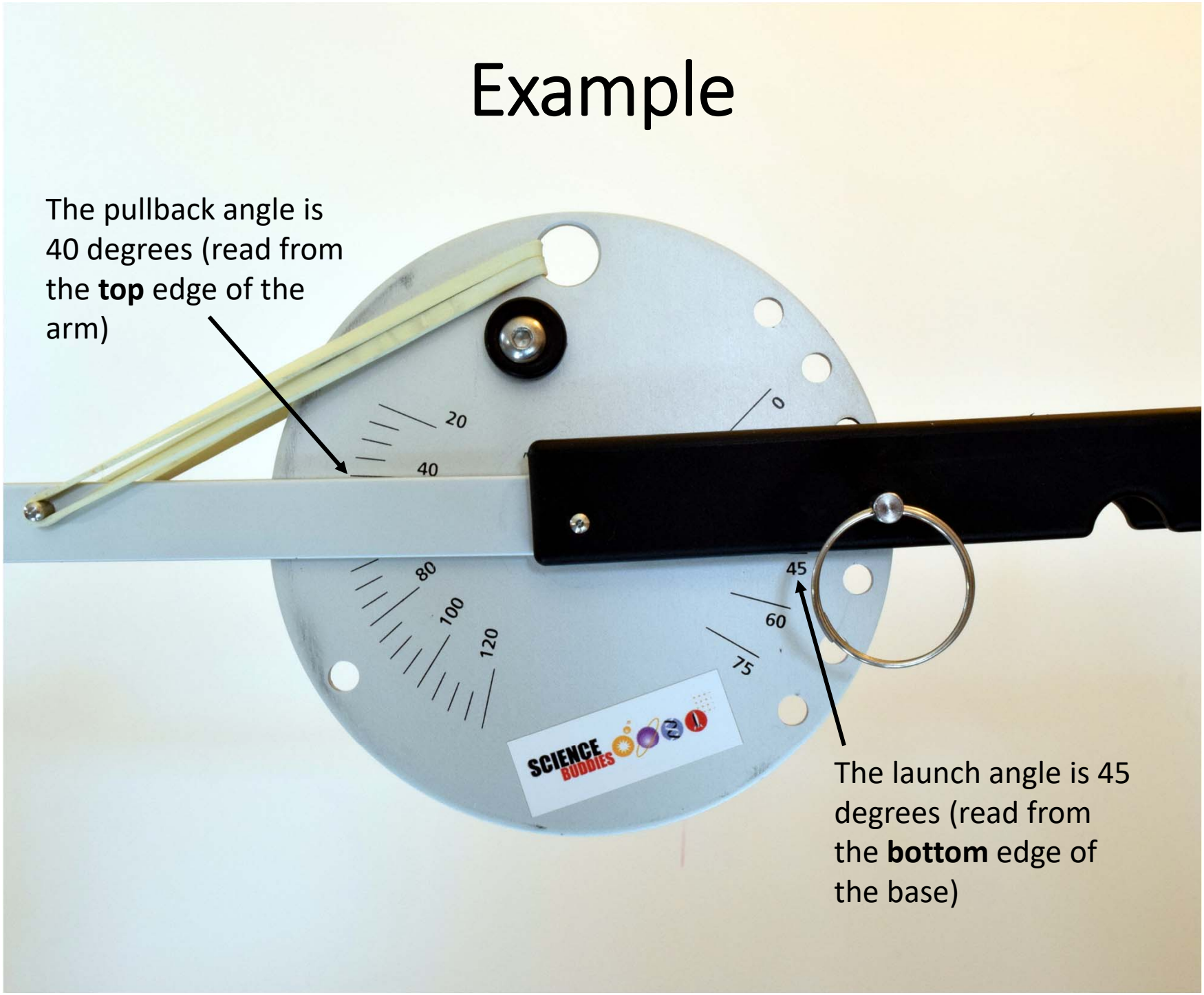
You can change the **launch angle** and the **pull-back** angle



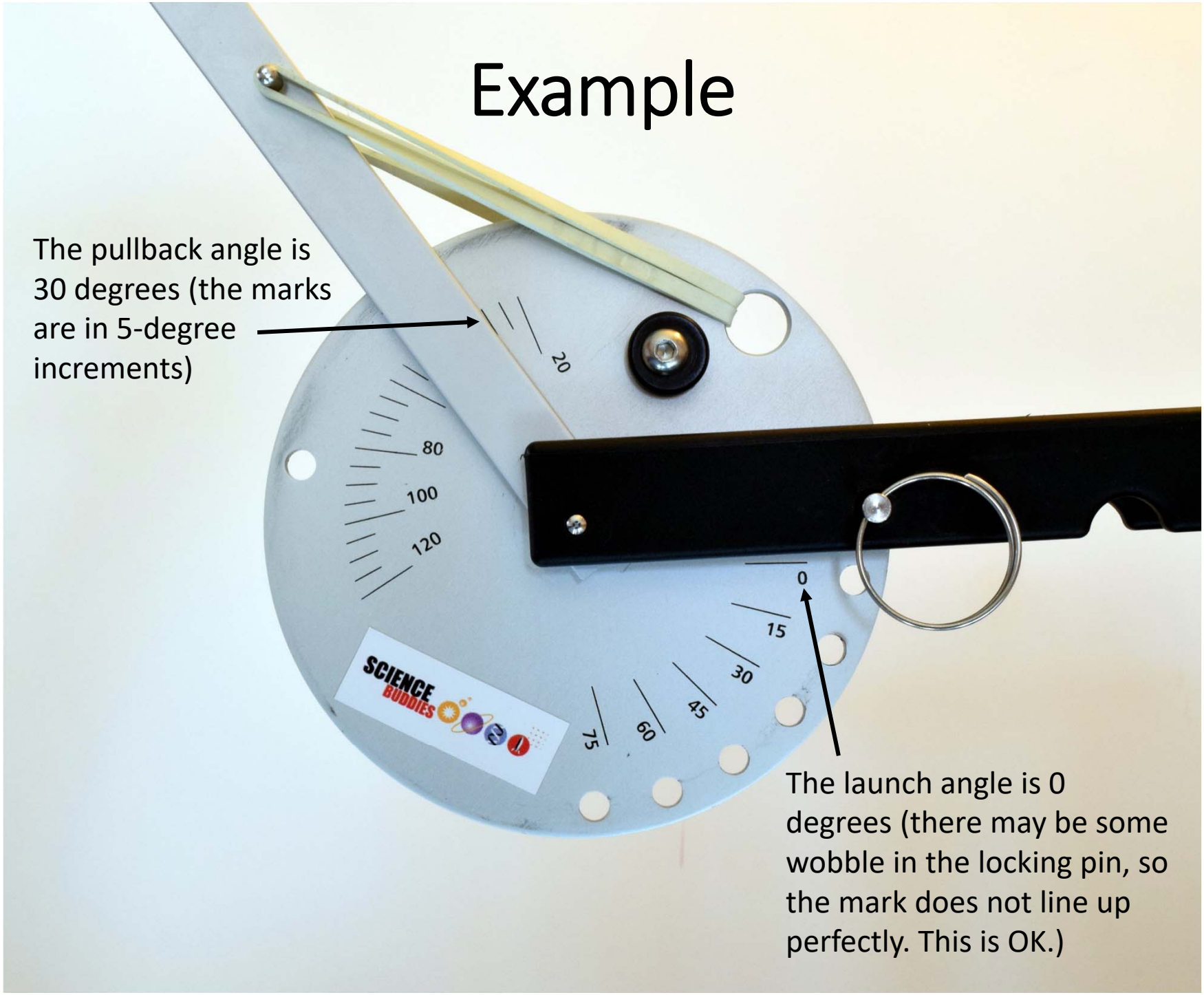


Markings on the catapult let you measure both angles

Example

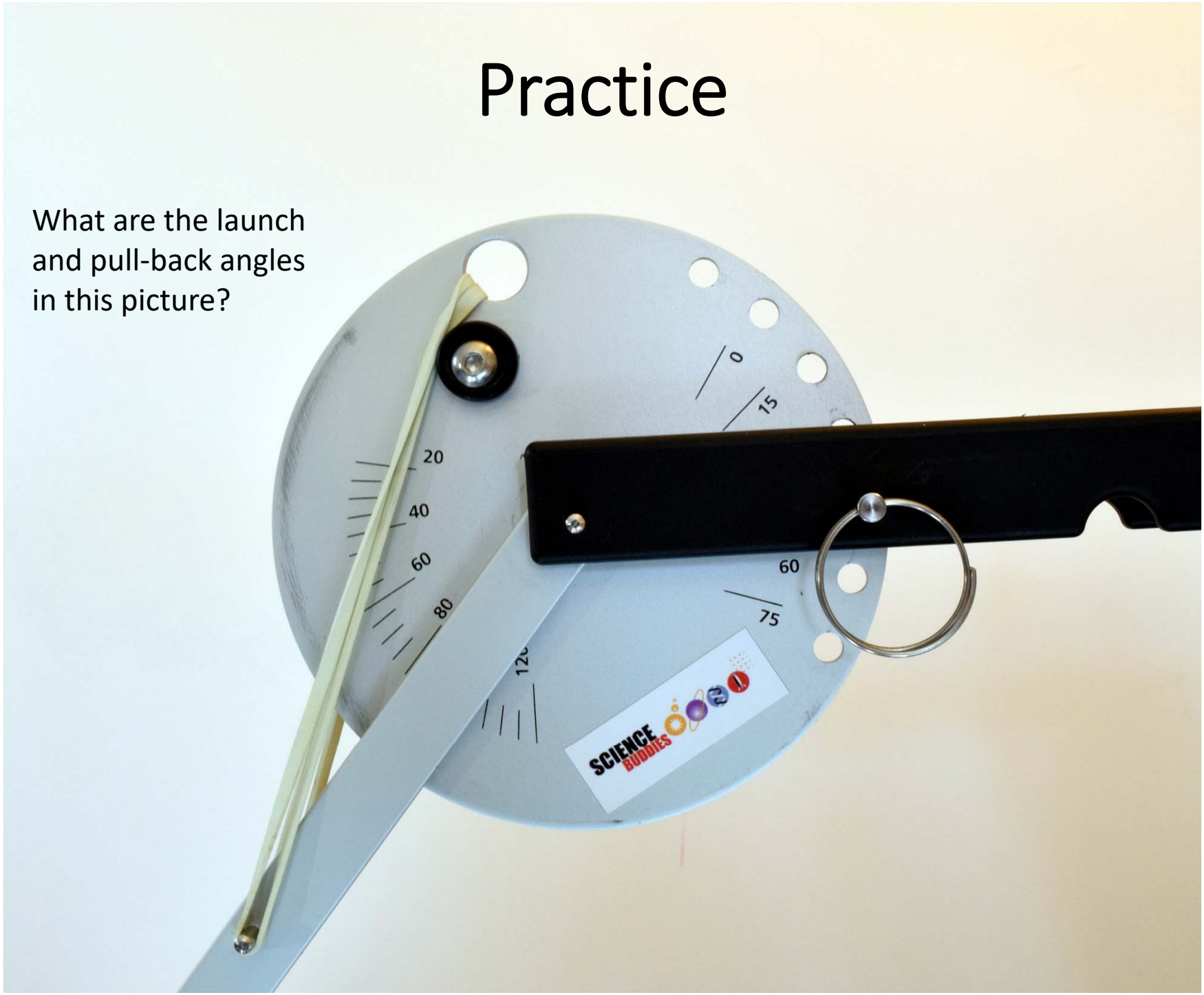

The pullback angle is 40 degrees (read from the **top** edge of the arm)
0
20
40
80
100
120
45
60
75
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The launch angle is 45 degrees (read from the **bottom** edge of the base)

Example


The pullback angle is 30 degrees (the marks are in 5-degree increments)
20
80
100
120
0
15
30
45
60
75
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The launch angle is 0 degrees (there may be some wobble in the locking pin, so the mark does not line up perfectly. This is OK.)

Practice

What are the launch and pull-back angles in this picture?



Practice

What are the launch and pull-back angles in this picture?

