

# **TeacherGeek Launcher Example Build**

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## LAUNCHER BASE PARTS

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ADJUCTABLE LAUNCHER BASE PARTS		
PART	QUANTITY	DISCRIPTION
А	3	12" DOWELS
в	1	HOLE PLATE
С	4	PERPENDICULAR ADAPTORS
D	1	10-24 X 1" PAN HEAD MACHINE SCREW
E	1	10-24 HEX NUT
F	1	76MM (~3") WIRE
G	1	LAUNCHER PROTRACTOR



## ASSEMBLING THE LAUNCHER BASE

Cut one 300mm (~12") dowel into two 150mm (~6") pieces.
 Slide one of these dowel pieces into the end hole of a perpendicular adaptor so it extends 10mm (3/8") through the other side as shown.



Attach the other perpendicular adaptor to the other corner with a 10-24 x 1" machine screw and hex nut as shown.



Slide that dowel end into the corner hole of the hole plate as shown

#### LAUNCHER EXAMPLE BUILD



#### LAUNCHER EXAMPLE BUILD

## ASSEMBLING THE LAUNCHER PROTRACTOR



## THE COMPLETED LAUNCHER BASE



#### THE LAUNCHER ASSEMBLY

Launching a ball from the adjustable base can be done in many ways. This is where individual design, creativity and problem solving lead to unique ways to achieve goals. Whether for accuracy, height, distance or any combination, solutions are endless.



## SAMPLE LAUNCHER ASSEMBLY

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The following pages provide just one simple example of how a launcher can be constructed on the adjustable base. Use your imagination and additional TeacherGeek parts to design other creative ways to launch the ball to achieve the desired result.

A TeacherGeek Clip
B Rubber Bands
C Locking 10-24 Hex Nuts
D 10-24 Hex Nut
E 10-24 x 1 ½" Machine Screw

- **F** Connector Strip Pieces 32 mm(~1 ¼")
- G Wire 64mm (~2 ½")







2

## SAMPLE LAUNCHER ASSEMBLY

Cut a connector strip 32mm (~1 ¼") long.
 Loop rubber bands through both end holes.



Cut a 64mm (2 ½") piece of wire that will form the trigger loop.

- 3
  - Place the ends of the wire through the two center holes of the connector strip.
  - □ Twist a loop on one side as shown.
  - Twist the two ends together on the other side to secure the loop to the center post of the connector strip.



4

□ Slide the rubber bands over two support dowels as shown.



### SAMPLE LAUNCHER ASSEMBLY



## SAMPLE LAUNCHER ASSEMBLY

- Pull the rubber band back and place the wire loop over the TeacherGeek clip.
- □ Place the ping pong ball as shown.
- □ Rotating the trigger assembly will launch the ball.

