

# The Playful Invention Fest

## MAKING A JITTERBUG - 1

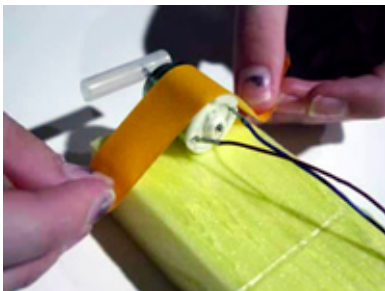
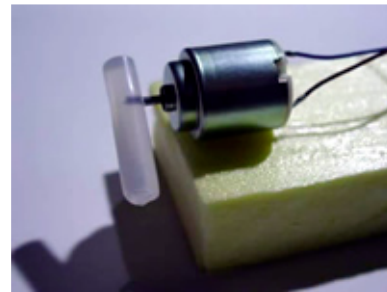
Pablo from the Exploratorium made these with visitors at Fort Worth's MindFest. Keith at Science Museum of Minnesota shows how...



### **Getting the jitters!**

Push the shaft of the motor into the gluestick. Hold on to the sides so you don't break the wires.

Center the motor on one side of the block. Make sure the gluestick on the motor is free to spin around when set to the end of the foam piece.



Tape the motor down. Wrap the tape all the way around.

### **Making a circuit**

Tape a small foam/paper strip over the positive (+) end of the AA battery.



On the negative (-) side - the flat side, line up the wire to the center and...

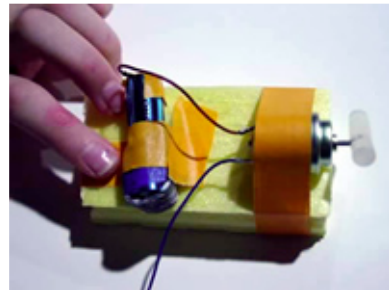
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### Finishing the circuit

Now tape down the wire. Press hard with your thumb to make it stay in place

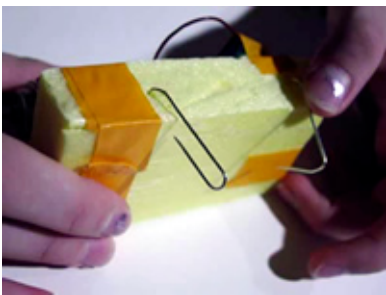
Now line it up on the block - evenly so the weight of the motor and battery balance each other. Tape down the battery.



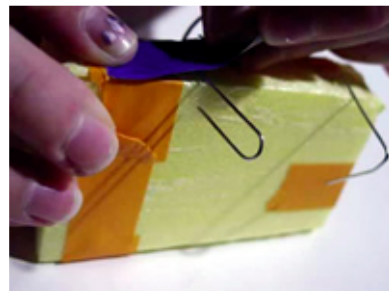
### Dancing feet; Making legs

Now turn the block to the side to attach the four (4) paperclip 'feet'

Open up a paperclip and push in the smaller end-



and push each of them hard with your thumb... then tape them down.



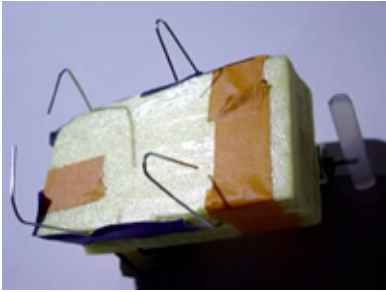
Holding a finger or thumb on the tape, bend out the paper clip so they angle out a bit. This will make it more stable.



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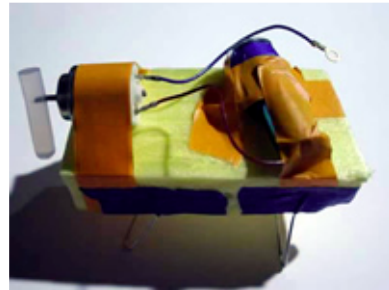
## MAKING A JITTERBUG - 3



### Finishing the legs

Bend the ends the way you want, on there ends or on the curves.

Turn it over and set it down to see if it wobbles, you might like that!



### Decorate your bug

Now you can add personality to your bug!  
(or horse or butterfly or ..?)

Once you have it decorated, you can start to play!

