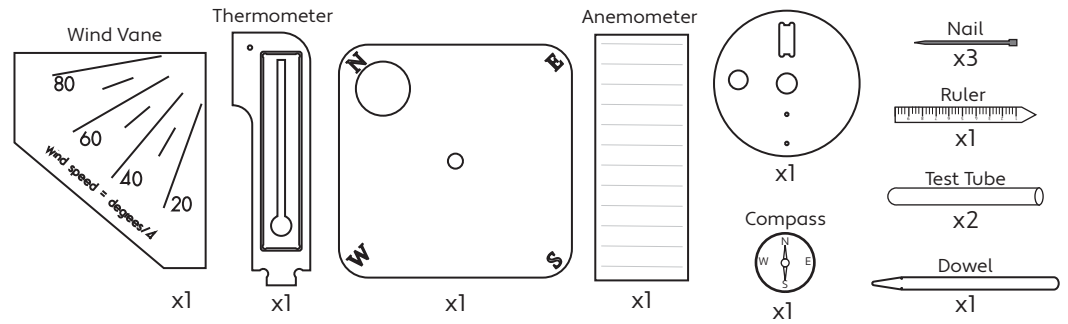


Weather Station

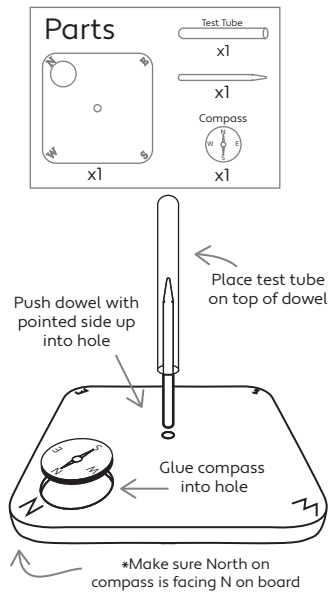
Whitney Workshop
www.eliwhitney.org

Parts

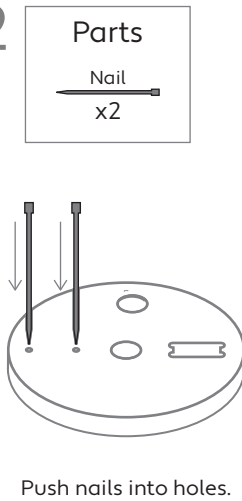


Assembly:

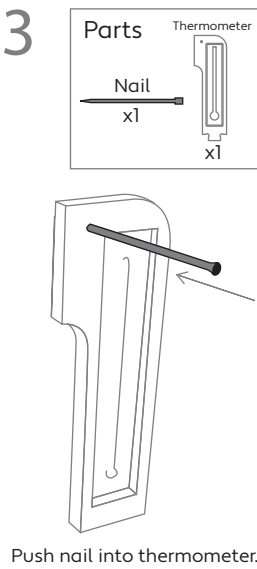
1



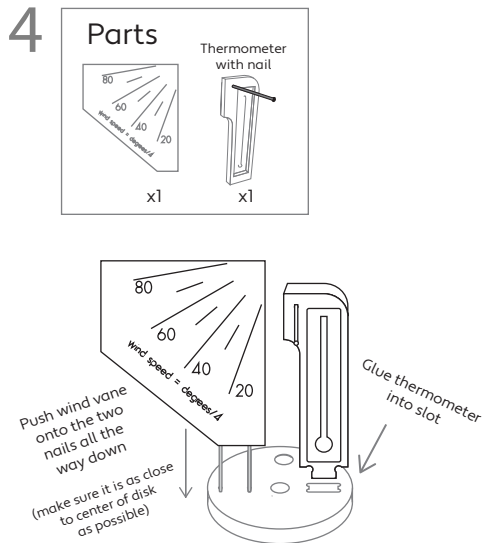
2



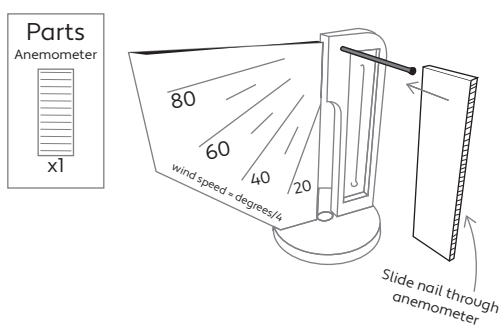
3



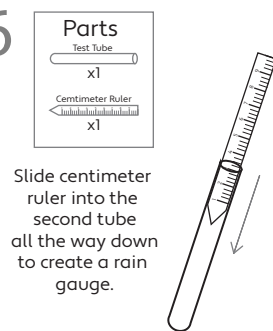
4



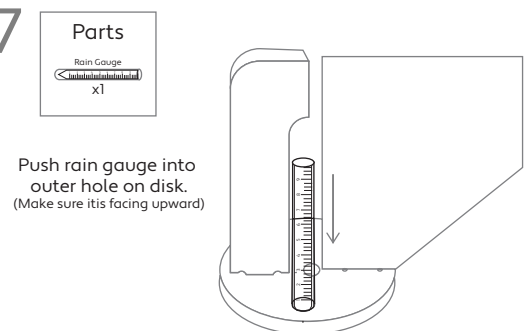
5



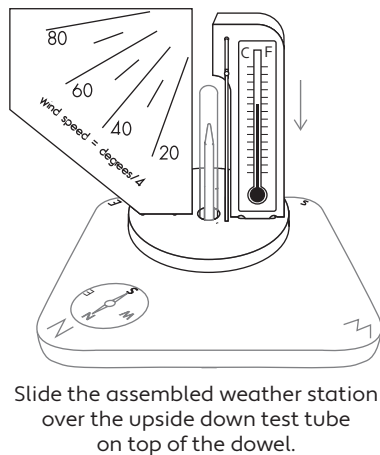
6



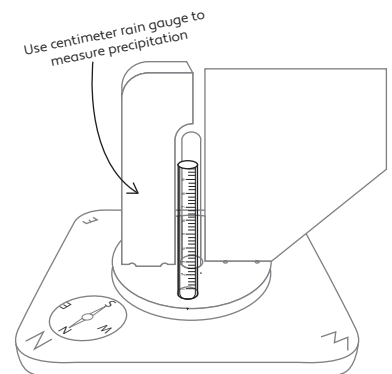
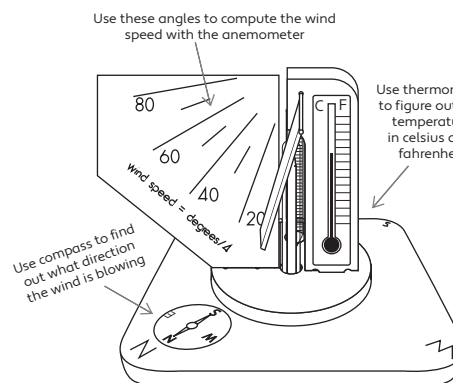
7



8



Take the weather station outside!



Pinball

Whitney Workshop
www.eliwhitney.org

Parts

Sub-pack



Dowels x9



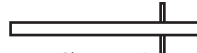
Marbles x3



Design Materials



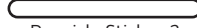
Rubber Bands



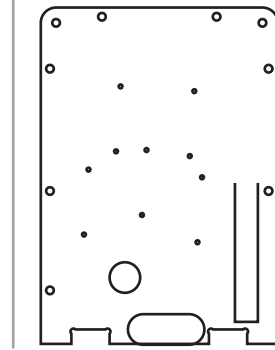
Shooter x1



Marble Holder x1



Popsicle Sticks x2

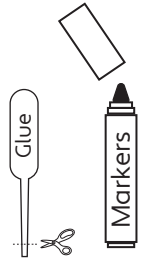


Board



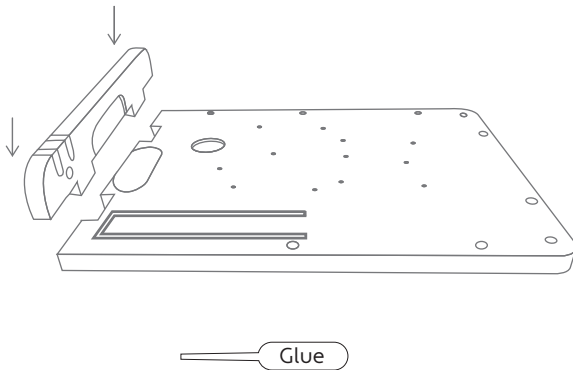
Backstop

Supplies Needed



Assembly:

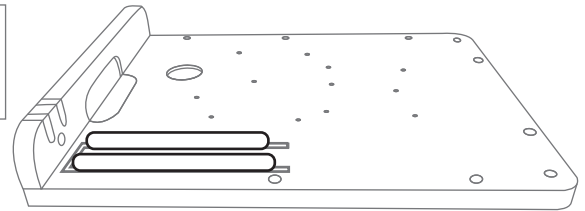
1



2

Parts

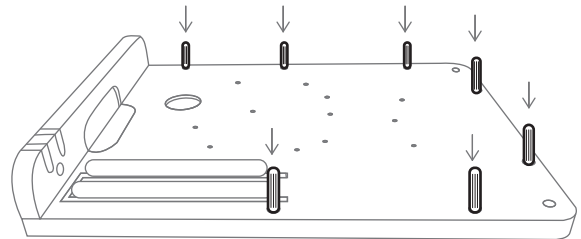
Popsicle Sticks x2



3

Parts

Dowels x7

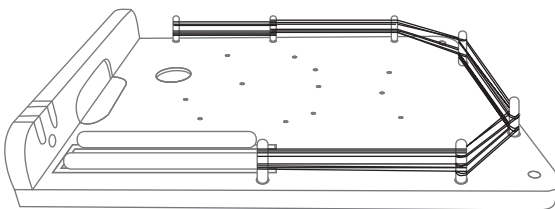


4

Parts



Rubber Bands



5

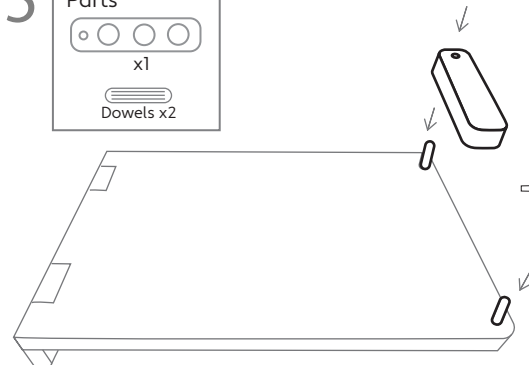
Parts

x1

Dowels x2



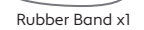
*Glue pegs ONLY



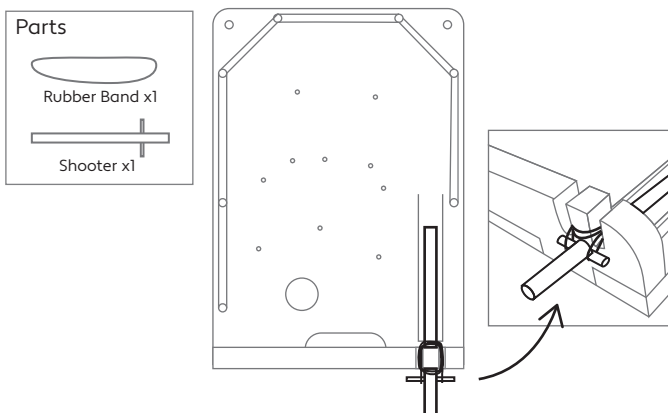
6

Parts

Rubber Band x1

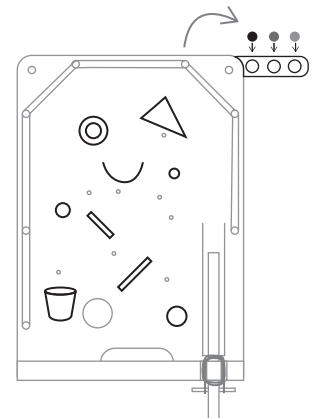


Shooter x1



7

Useful Parts



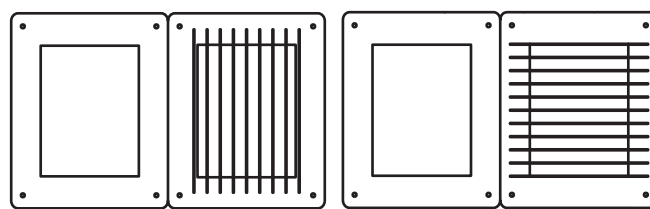
The Idea: All games have beginnings, middles, and ends.

More Info: <http://eliwhitney.org/7/projects/2020/2020-pinball-machine>

Paper Weaving

Whitney Workshop
www.eliwhitney.org

Kit Components



Weaving Frames (horizontal and vertical)



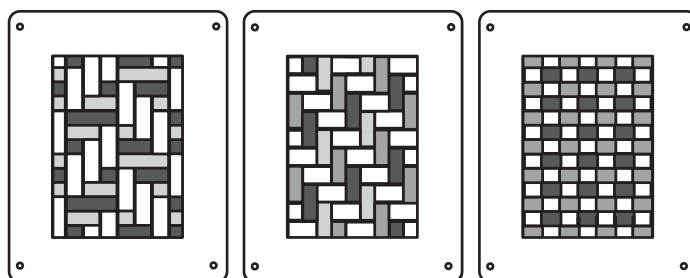
8 Fasteners



Weaving Paper
(3 colors)

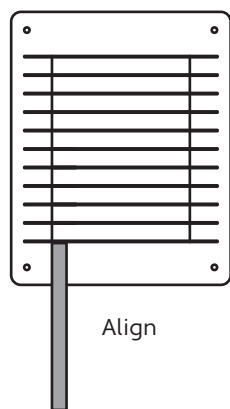
The most influential weaver of the last hundred years, Bauhaus-trained **Anni Albers** worked and taught in New Haven for 44 years. She brought modern invention and vision to the ancient art of weaving.

Many different weaving patterns exist. Here are a few examples. Test them out.

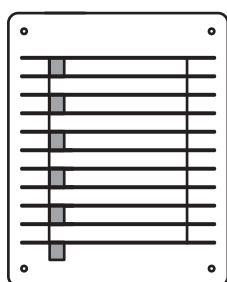


Can you make your own pattern?

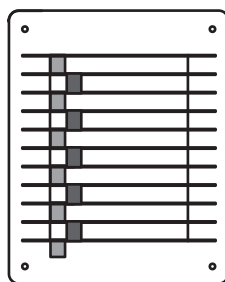
Steps



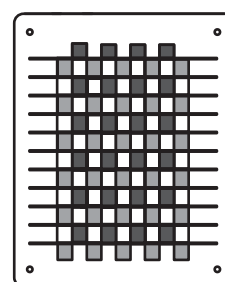
Align



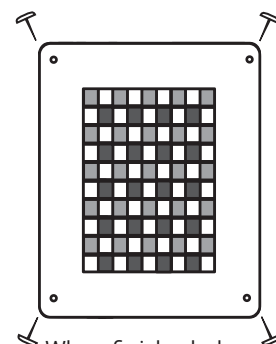
Weave



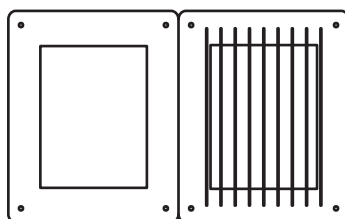
Repeat



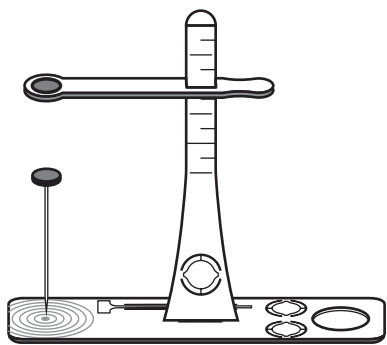
Continue until
you reach the
right border.



When finished, close
the frame and attach
the fasteners.



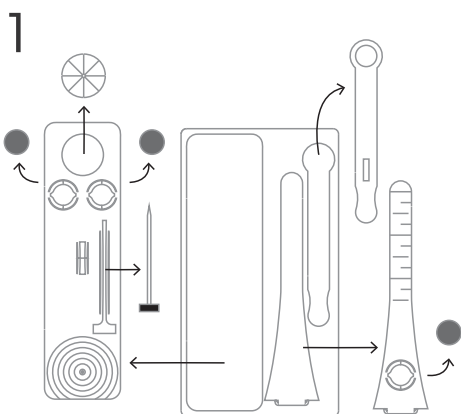
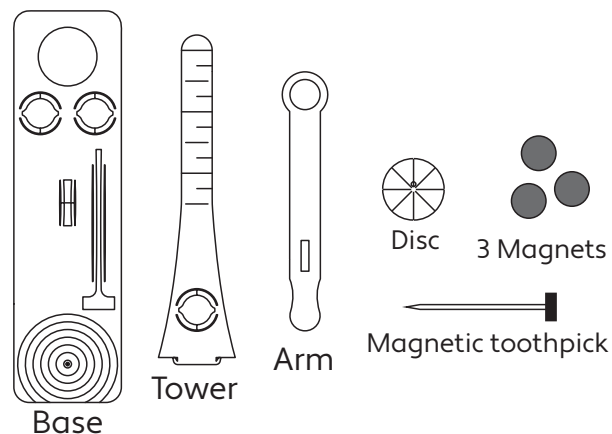
Now test out a different pattern on the other frame!



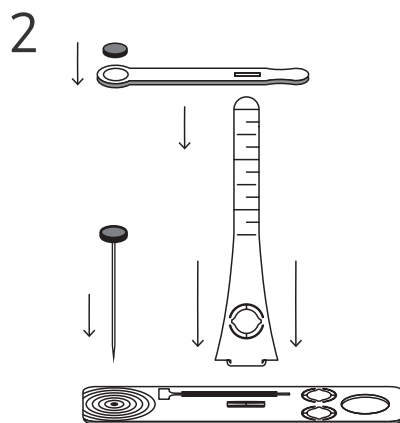
Magnetic Suspension

Whitney Workshop
eliwhitney.org

Parts

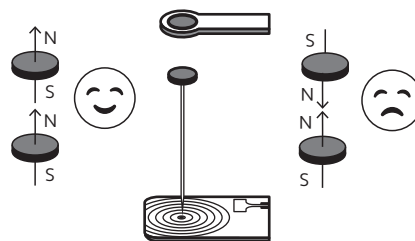


1 Pop out the wooden parts and 3 magnets from the board. Carefully remove the toothpick.



2 Stick one magnet into the arm's hole. Assemble the tower and arm.

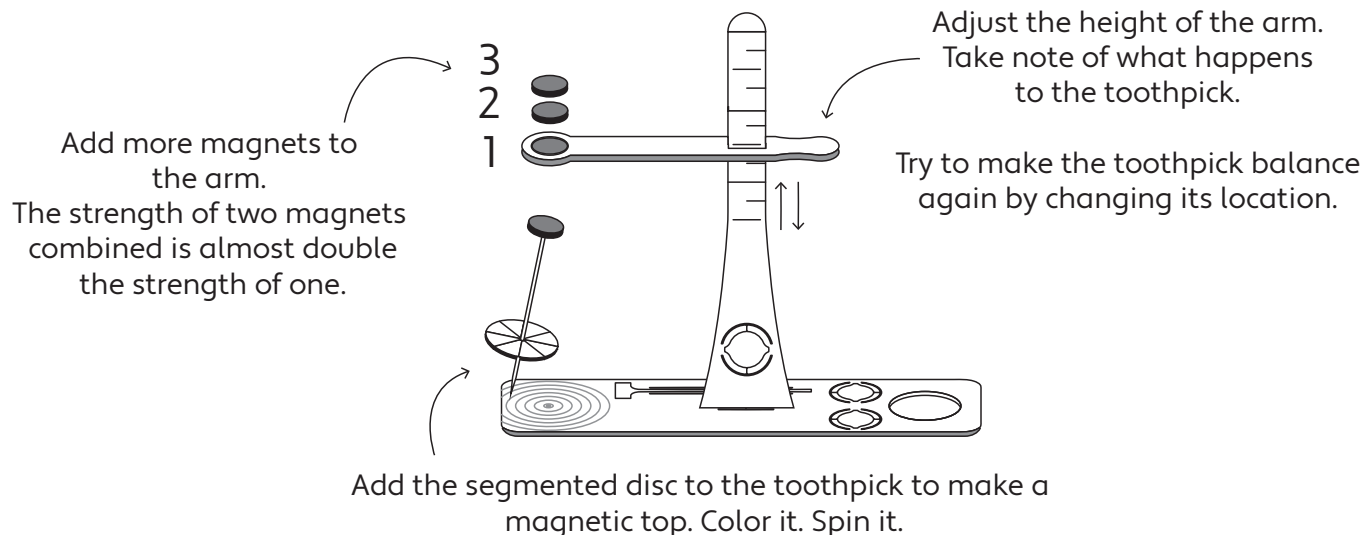
3 Try to suspend the toothpick by adjusting the height of the arm.



Polarity matters! Make sure the two are attracting. If they repel, flip the arm over.

4 Experiment! Magnets obey the inverse square law, where the magnetic force (F) is inversely proportional to the distance squared (d^2).

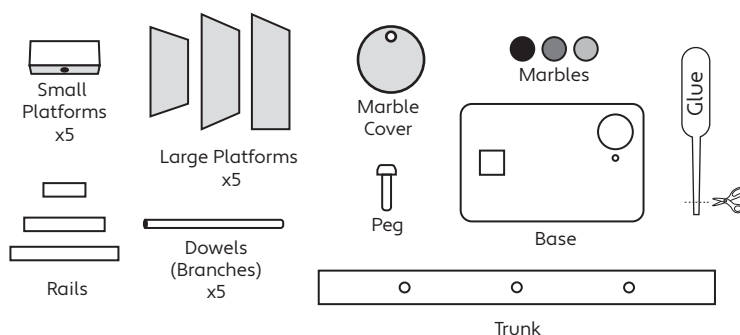
For example, if the distance between the magnets doubles, the force between them becomes $\frac{1}{4}$ of the original value.



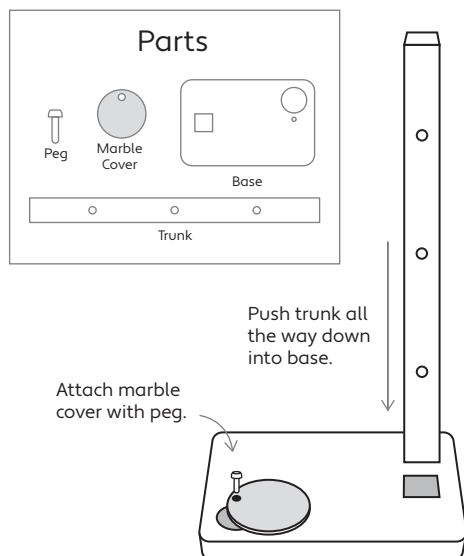
Marble Tree

Whitney Workshop
www.eliwhitney.org

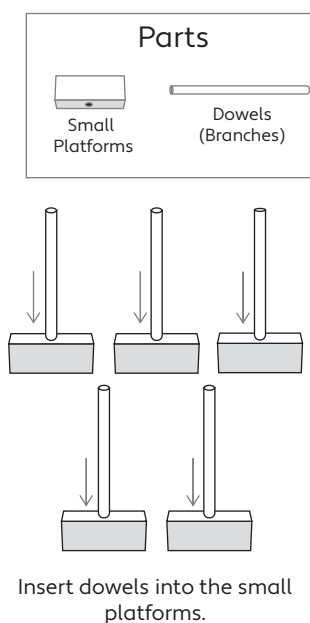
Parts



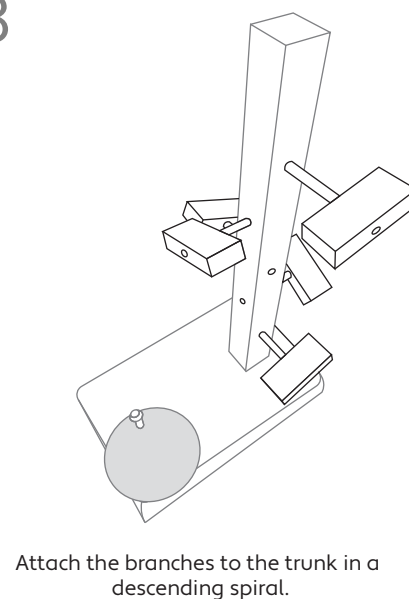
1



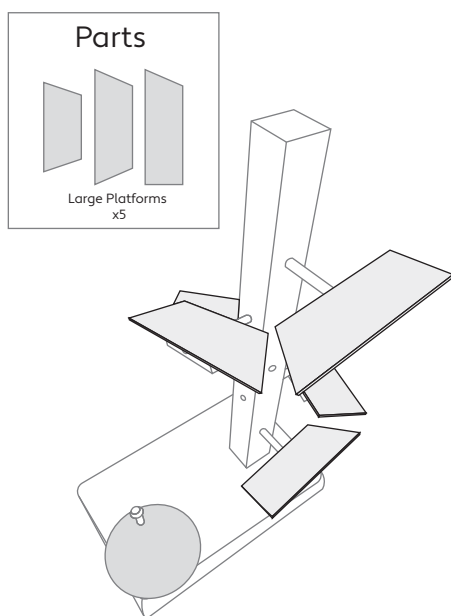
2



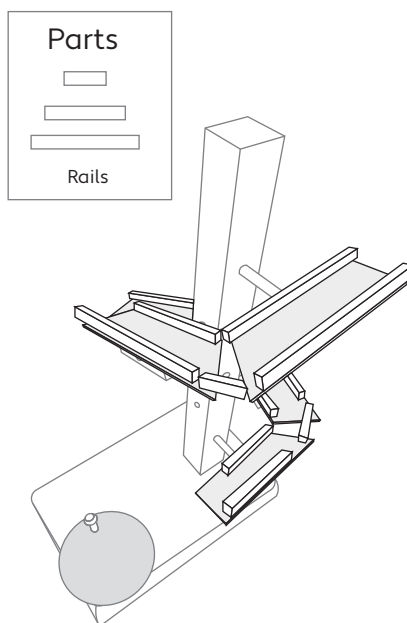
3



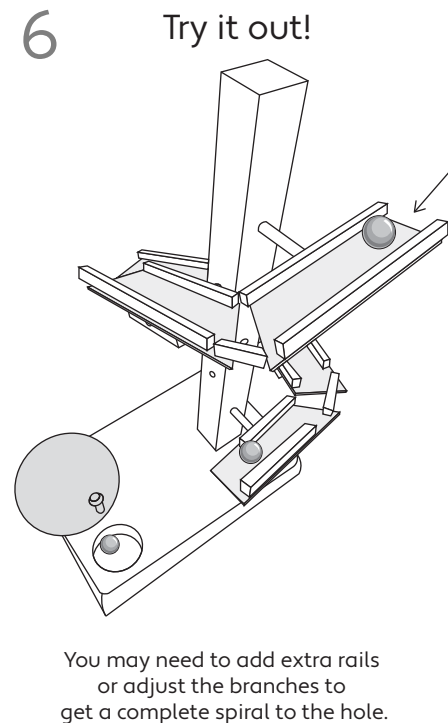
4



5



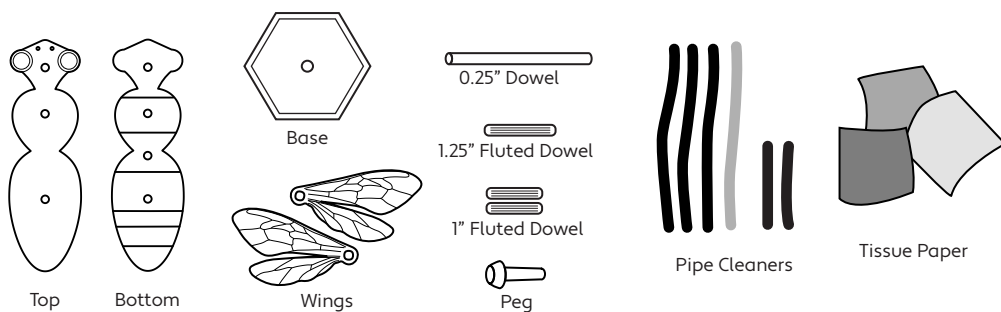
6



Bee

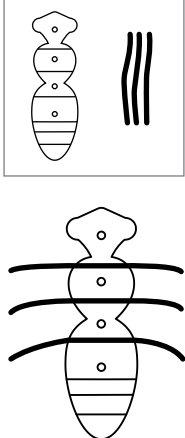
Whitney Workshop
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Parts



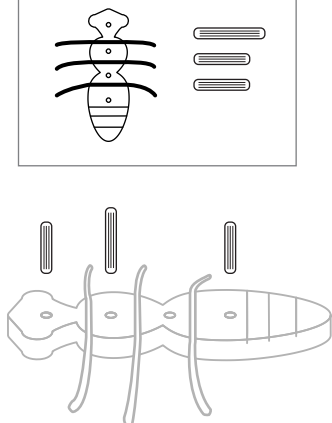
1

Parts



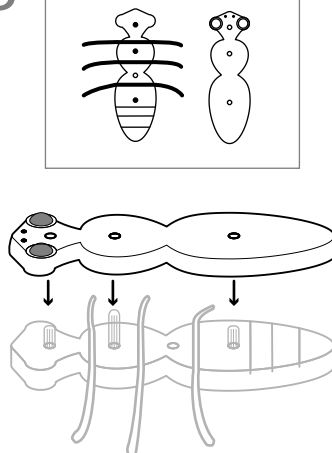
2

Parts



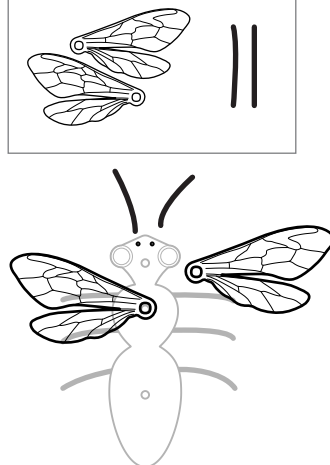
3

Parts



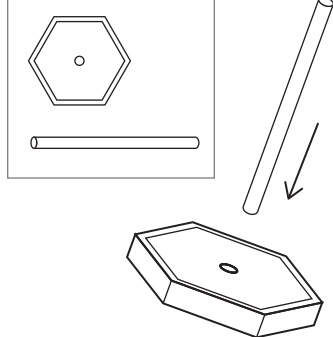
4

Parts

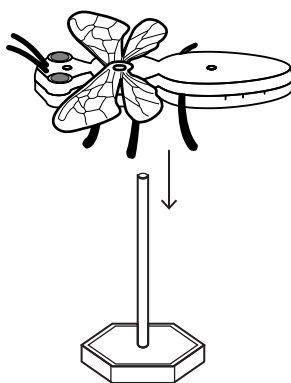


5

Parts

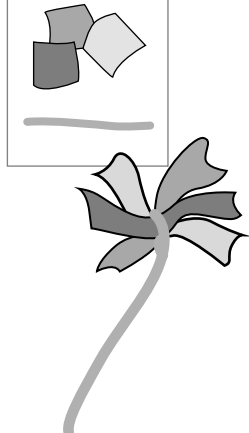


6



7

Parts



8

Parts

