

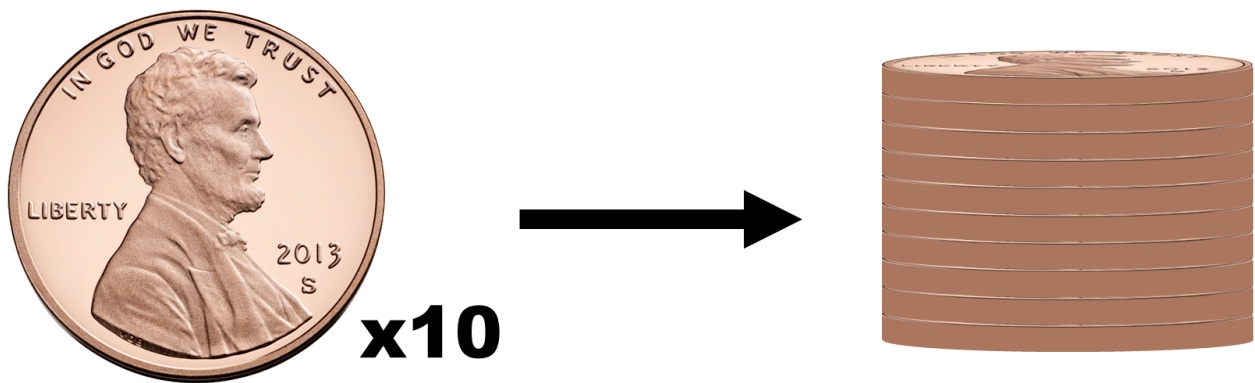
# Penny Weight-Set Instructions

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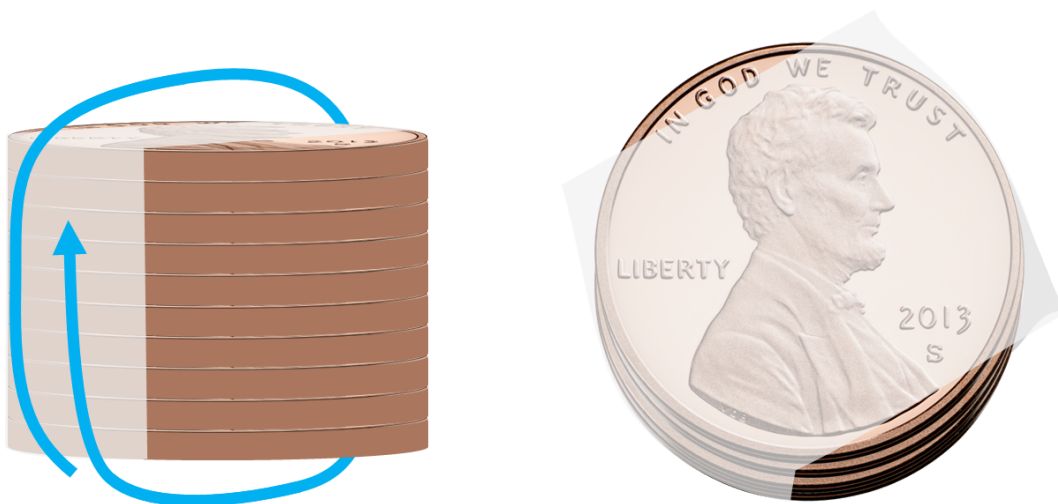
The following instructions will explain how to create a modular weight-set out of pennies. These weights will be used in many of the labs, so to save time later, we recommend constructing the weights ahead of time so they are ready to use when the labs require it.

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Start by making a stack of 10 pennies.

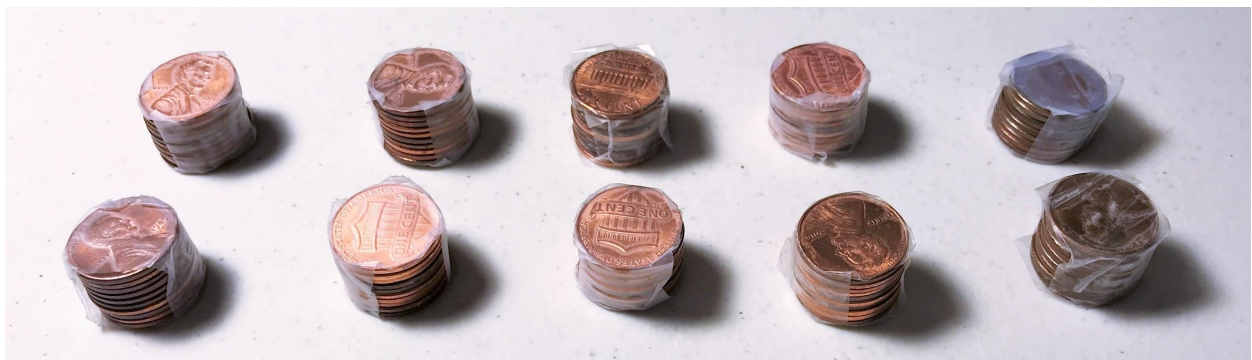
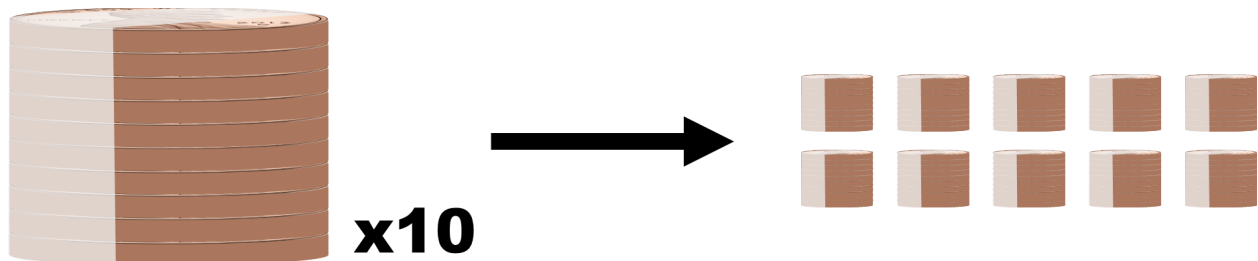


Tape the stack of pennies together with a strip of clear tape as shown.





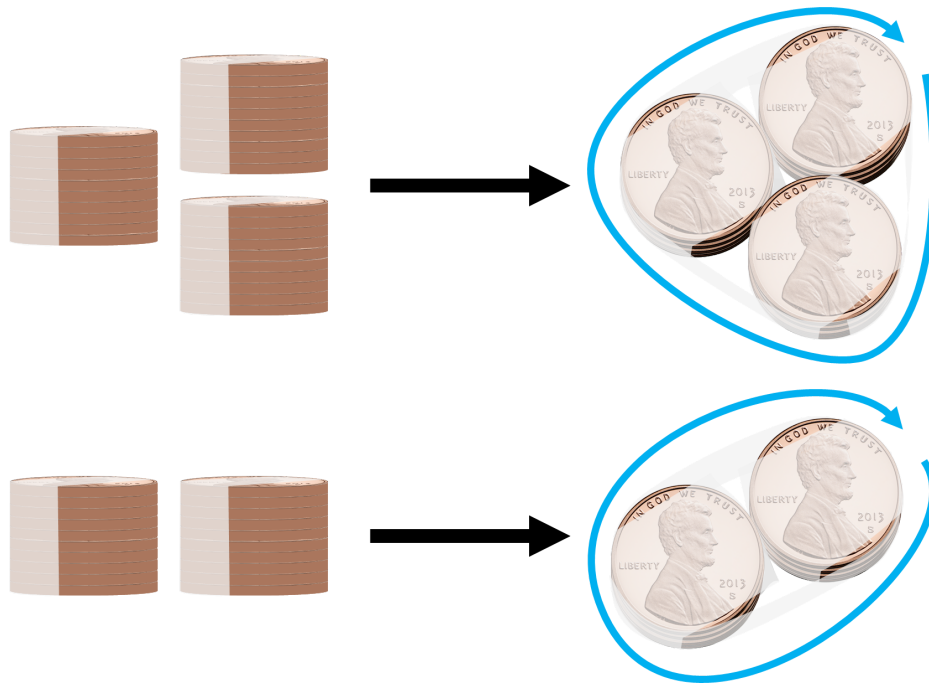
Repeat this process with all 100 pennies so that you have 10 stacks of pennies.



These 10 stacks of pennies will be your modular weights for the labs in this class. For different experiments, you will combine them in different numbers and configurations.

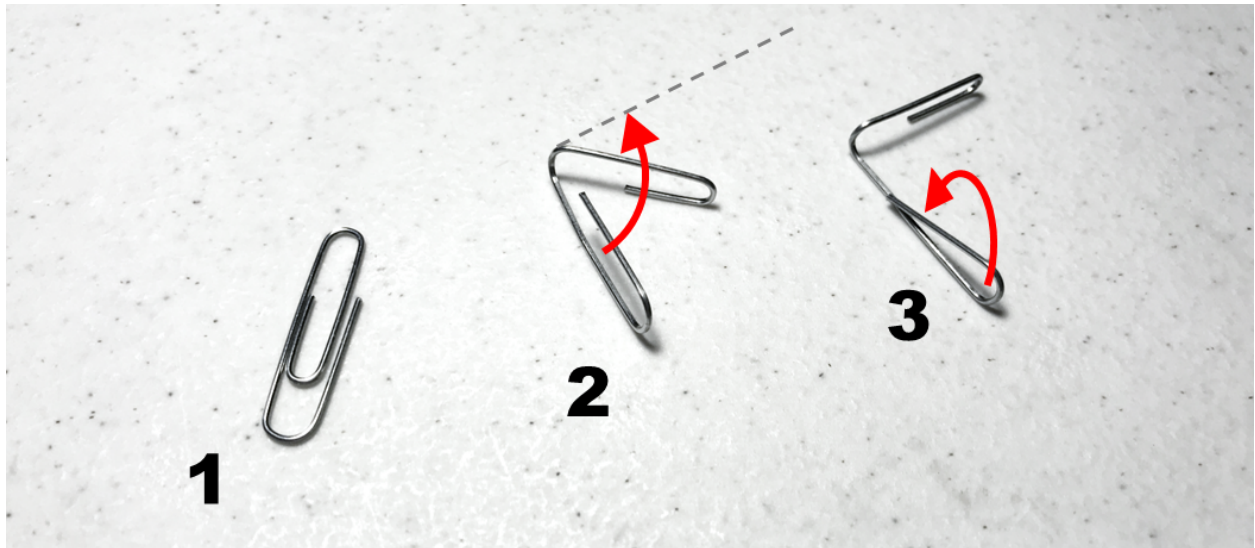
The weights for Lab 2 are a little more complex than the individual penny stacks, so in order to save time on the Lab 2 setup, follow the next couple steps to configure those weights.

Make 2 groups of 3 stacks each and 2 groups of 2 stacks each. Tape the stacks together as shown.





Now, take a paper clip and bend it into a 90 degree angle. Then squish the wider part together to make a loop. Repeat this on another paper clip so that you have 2 like this.



Poke the loop end through the center hole on one of the 3 stack groups as shown and flip it over. Do this for both groups of 3.



When you finish this, you should have 2 groups of 3 with paper clip loops on top.



Take one group of 3 stacks and one group of 2 stacks and tape the group of 2 under the group of 3. When you finish this step, you should have 3 groups of pennies as shown below (5 stacks with a loop, 3 stacks with a loop, and 2 stacks alone). You will use the groups with paper clip loops (5 stacks and 3 stacks) for your weights in Lab 2 part 1.



When you get to Lab 2 part 2, tape the remaining group of 2 stacks under the group of 3 stacks like you did before, to make 2 groups with 5 stacks (50 pennies) each.

