

Arm in Arm

Create and Experiment

Select the material(s) you will use for your model arm from the list below. You may add any extra material you want such as balloons...



Test your prototype:

- mount the arm to the back of the chair using a binder clip.
 - attach the cup to your model arm. Consider where a real arm would hold weights.
 - weights will be added to the cup. For the first trial you will test your prototype with coins. The arm should be level at the end of the lift.
 - Add coins to the cup. Repeat the test. Your testing is over when your model arm bends the wrong way.
- Start with coins in the cup. **Record** if the arm passes or fails. A pass is when the arm lifts the cup. A failure is when the arm bends the wrong way.
- Add coins to the cup. Repeat your **test**. Continue testing by adding coins to the cup. Keep repeating your test until the arm fails.

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Trial	Load (Number of coins)	Pass or Fail
1	1	
2		
3		
4		
5		

