

A Phone Case for Marcus

Instructions: Your mock cell phone case **must have ALL** the characteristics listed in the “Your Cell Phone Case Must” table below. Your design will not be eligible for testing unless your case meets all of the following constraints:

Constraints - Your Cell Phone Case Must:
<ul style="list-style-type: none"> be smaller than 4" x 7" x 1" be made of repurposed materials. remain intact, without repairs, for both tests.

The table below is a scoring rubric. The score represents how well your cell phone case meets the criteria Marcus has given you.

Criteria - Your cell phone case should:	Rubric	Score
Protect the mock cell phone.	Damage to the cell phone is observed after one test. <small>[Damage - cracks, chips, broken pieces]</small>	1 point
	Damage to the cell phone is observed after both tests. <small>[Damage - cracks, chips, broken pieces]</small>	2 points
	No damage to the cell phone is observed after both tests. <small>[Damage - cracks, chips, broken pieces]</small>	3 points
Be inexpensive.	Materials cost more than \$5.	1 point
	Materials cost less than \$5.	2 points
	Materials are free (cost is \$0).	3 points
Last a while (i.e. be robust).	Needs repair after 3 uses. <small>[Use - open/close case and/or remove/insert phone]</small>	1 point
	Needs repair after 10 uses. <small>[Use - open/close case and/or remove/insert phone]</small>	2 points
	Does not need repair after 10 uses. <small>[Use - open/close case and/or remove/insert phone]</small>	3 points
Allow the cell phone to be easily accessed.	Phone can be removed with noticeable effort. <small>[Noticeable effort - more than 2 seconds and/or more than 2 steps]</small>	1 point
	Phone can be removed with minimal effort. <small>[Minimal effort - less than 2 seconds and/or less than 2 steps]</small>	2 points
	Phone can be used without being removed from the case.	3 points

Complete a detailed drawing of your cell phone case design with materials labeled. Use your ideas from the crushing test, and Crash test models. Include labels of all of the components of your design. Make your drawing artistic and accurate. *Follow the criteria and constraints that are on the back!*