

MAKER JOURNAL

Name: _____

Date: _____

Sketch your carrying case. Label the materials you will use, as well as the specific measurements of your case.

Draw your carrying case.

Criteria (design requirements)

- *Case must protect the object from a fall*
- *Case must protect the object from a weight resting atop the case, for a minute*
- *Case is easy to carry with one hand*
- *Case is reusable; object can be removed and replaced*

Constraints (design limitations)

- *Case must be built with materials provided*
- *Case must be completed and tested in the given time*
- *When testing, the object inside must remain unchanged*

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<i>Criteria (design requirements)</i>	<i>Constraints (design limitations)</i>
<ul style="list-style-type: none"> • Case must protect the object from a fall • Case must protect the object from a weight resting atop the case, for a minute • Case is easy to carry with one hand • Case is reusable; object can be removed and replaced 	<ul style="list-style-type: none"> • Case must be built with materials provided • Case must be completed and tested in the given time • When testing, the object inside must remain unchanged

Can the case...		Notes
Protect your object from a <u>5</u> foot drop?	<input checked="" type="radio"/> Yes <input type="radio"/> No	The case was dented on the corner, but the object was fine.
Test 1		
Protect your object from a ___ foot drop?	Yes No	
Support a weight of _____ for 1 minute?	Yes No	
Be carried ___ feet with 1 hand?	Yes No	
Be reused __ times? Take the object out, and put it back.	Yes No	
Did the object stay the same?	Yes No	

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Can the case...		Notes
Test # ____		
Protect your object from a ___ foot drop?	<i>Yes</i> <i>No</i>	
Support a weight of _____ for 1 minute?	<i>Yes</i> <i>No</i>	
Be carried ___ feet with 1 hand?	<i>Yes</i> <i>No</i>	
Be reused __ times? Take the object out, and put it back.	<i>Yes</i> <i>No</i>	
Did the object stay the same?	<i>Yes</i> <i>No</i>	

Can the case...		Notes
Test # ____		
Protect your object from a ___ foot drop?	<i>Yes</i> <i>No</i>	
Support a weight of _____ for 1 minute?	<i>Yes</i> <i>No</i>	
Be carried ___ feet with 1 hand?	<i>Yes</i> <i>No</i>	
Be reused __ times? Take the object out, and put it back.	<i>Yes</i> <i>No</i>	
Did the object stay the same?	<i>Yes</i> <i>No</i>	