		Name	
	<u>Cell Ph</u>	one Case Crush and Drop Test	
• •	Mock cell phone Science textbooks	Constructed cell phone case	meter stick
Draw and	label the parts of y	our cell phone case:	
	,	1	
· ·			
<u> </u>			
_	rocedure:		
	the phone into the c	case. : and wait 30 seconds. Remove t	he book
		ect the phone for damage. Reco	
	damaged, stop testin		, d 0500, vd0,0110.
		her book, repeat steps 2-4 until	damage is noted on
the	phone		
щ. с			
# of books	Observations: Inc	lude size and placement of any c	racks or crumbles
	·		
	 		
		· · · · · · · · · · · · · · · · · · ·	
Independe	ent variable:		
Dependen	t variable:		
Constants	•		

Dropping Procedure:
1. Put the phone into the case.
2. Orient the phone the way you want to test it (flat, on end, on a corner).

- 3. Hold the phone steady at 50 cm height
- 4. Let drop!

test?

- 5. Make observations about the collision (landing) did it land the way you wanted? Did it bounce?
- 6. Open the case and inspect the phone for damage. Record observations.
- 7. If damaged, stop testing the phone.
 8. If undamaged, add 50 cm to the drop height and then repeat steps 4-7.

Drop Height	Observations: collision, bounce?, size and location of damage
50 cm	
100 cm	
150 cm	
200 cm	
250 cm	
Dependent var Constants: Questions:	variable:

3. During the dropping test, what is happening to the phone that is inside of the case? (Think of the guy inside of the van during the crash test)

2. When were the forces balanced during the crushing test? The dropping