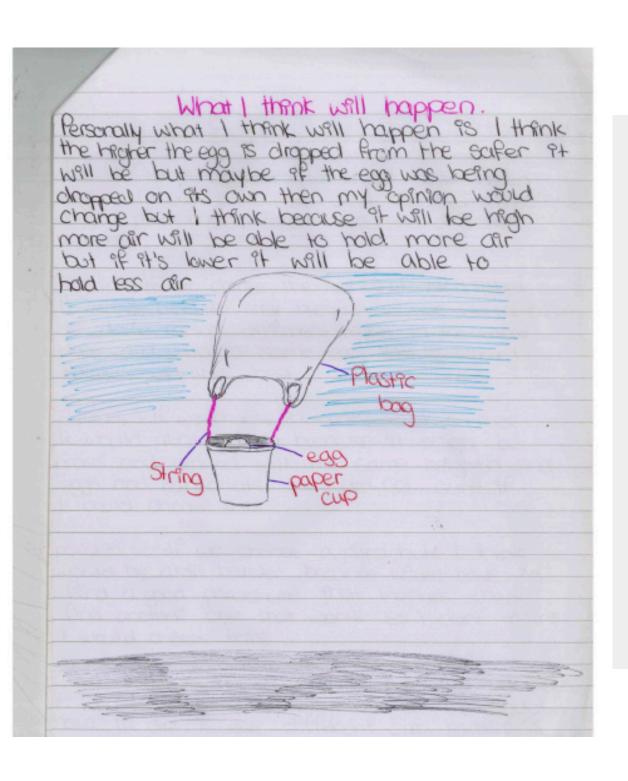
# Junior Cycle Science CBA - Second Year



	Introduction
the book	chase to do an egg drop in which e variables were height we use a plastic g as the parashoot I was actually surprise how good it worked as a parashoot orked the height were 4.5 m, 3.5 m and orm. Here are my results
	Investigation
hou eggs	topic we chose was to see at which  If would be the best to drop an egg from  The always found eggs intresting because of  Fractige they are when we're thinking about  and heights like high, medium and low  aiutomatically think low would be the sofest I  stigated weather that was true or not.
	Background Reseach
You regginer	i may be wonderling why I plak an egg drop main reason is because we did a minor drop in primary school and I found it y fascinating how the slightest impart an egg can make it break



#### CBA1 Extended Experimental Investigation



1. The student makes a simple prediction with justification.



#### CBA1 Extended Experimental Investigation

# Variables The different voriables we could have chosen are a few, we could have done Highth, surface (grand), the parashoot, different cups and different weights. highth ~ If we choose the variable of highth It would be quite easy because all we would have to do 95 mesure different hights in the same place and drop the same egg this is what I thrink would work best. Surface ~ If we choose the variouse of surface It would also be easy because 91 might be gross and ground with the same heighth and eggs and parachute but I am not sure 9P I would chase this. parachute 18 we choose a parachute I think would be about harder because would have to find a good parachute that workes then And another one that works so I don't thank I would arrosse this. cups 1 think of we choose the cup variables It would be extremly easy as all we would have to do is use different cup so this is one I will defanitly have as an option.



tr v	vergints ~ If we chose the weight veriable it wouldn't be too hard as all we would have a do is get two eggs at two different
-	leights.
	and the survey of the second o
	Sensor and proceeding a control study of the con-
	and the property of the second
	The digital tree sensits being but come
	of and and equal than the stand
	South toch to dien tot and priem by
	2. CH Server black



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The equipment	wasn't alot but wasn't	very
small either.		of tak
used A		
alle OD	A CONTRACTOR OF THE PARTY OF TH	
-plastic bog/		
THE YES OFFICE	use hequip entropeleradeld a	
- wool thread?	Phillips Stap House sold	
- 0000 000 5	The second districts in	
- paper cup t	Som we also had	
- Kitchen tasso	e day to contrato eu diobil s	1
	1900 Um cos sult goow	
- Screw driver		
- Markers 1	chasses to some so ou of a	
TIGITES &	a interpretation and three and	
- Weighting mach	holes in the cut person	
of 19 400	the world thread and on	
Cherall we	ggs are a hydroday axii	
lule read the	egg because 97 was the	
Source of our	experiment so book of	
	one to the egg	
Pp	she bog	
ab and the al	select has the asserts	40
when worked	ostic bag for the parachi very well, which I think ald hold more air becau	rs
because of con	ld had more our becau	080



	waal thread
Weg	If he donce the metant vertable 91
MOI	We used the wool thread to
to	hold the cup and plastic bag (pan
Meg	chute) together.
	mor our
	paper cup
	We used the paper cup to out
	We used the paper cup to put the egg Preside which worked fine
	Katchen tassue and assure
	I be used the rold on toward to les
	We used the kitchen tissue to
	wrap the egg only one square .
	Screw driver
	hylers //
	We used the screw arrue to put
	notes in the cup so we could all
	the wool thread and conect 9+ to
	the parachute 2000
	ant and 19 Marks and
	ant sow to Markers open ant beau a
	We used markers to give numbers to the egg
	as to the egg
	Mediting madrine
9	word the and and affect and the collection
	We used the wellaining marrieno to
	weight eggs
	of the state of th



#### CBA1 Extended Experimental Investigation

lasks The first tosk that needed to be corried out was making the parachute which did not take long as all we had to do was connect the plastic bag with the cup which we aid by connecting them with string. The next task we faced was finding a good place to drop the egg from which we picked an open space towards the book of the school and with finding where to drop 9t from we also had to proc which healths we would drop it From In which we chose 4.5m, 3.5m and 2.5m We also needed to count up all of our results for our graph which you will see on the next few polices Overall we were able to do all of the tasks required.

2. The student describes a simple method to record data although the process lacks some detail.



#### CBA1 Extended Experimental Investigation

y Procedure The man softy procedure was manny about where we were drapping the aga from because it was quite high so we to make sure what ever we were standing on was sturdly or else someone might've hurt themself. Procedure The procedure we used was drop the egg then take down results then repeat that procees over and over orgain we used a lot of eggs because we had to make sure our results were occurate. he each brought in about 4 eggs and weighed the to make sure they were the same weight the people I worked with were

3. Outlines main safety consideration.



#### CBA1 Extended Experimental Investigation

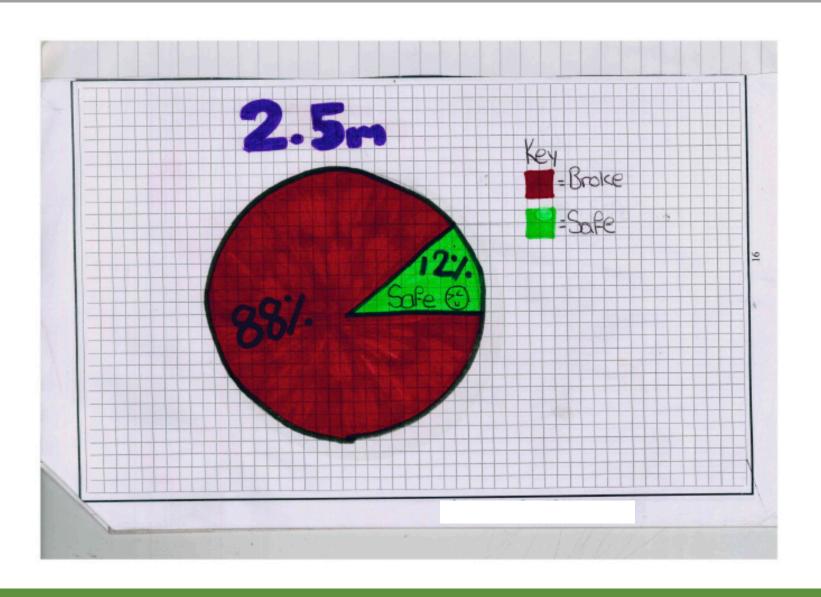
	Raw Data		
2.5m	Broke HT HT	Safe	
3.5m	itt itt	\	
+:5m	HT.		

4. Raw data recorded



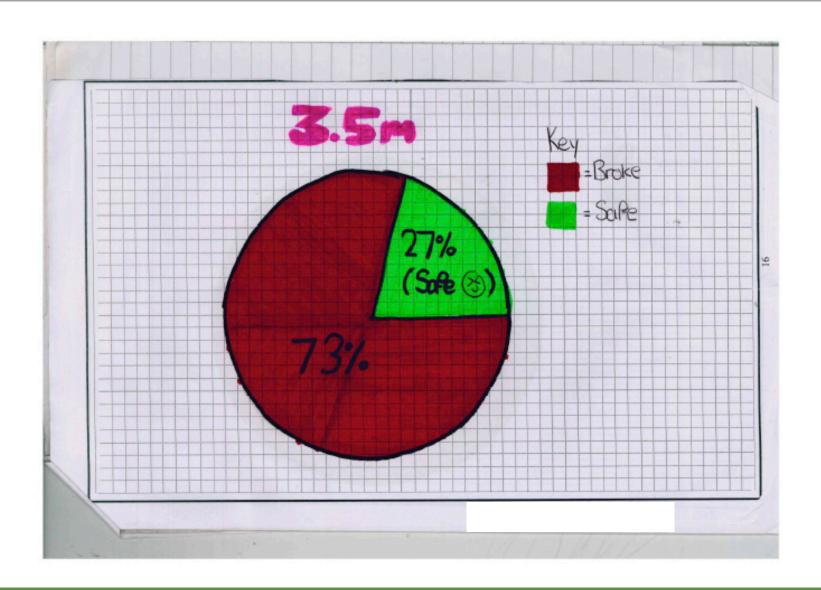
In	the first week we started, we starte
the	th 4.5m which was the highest Prist thing I noticed was that
bear	use it had more time to fluit down
1t	was able to hold more are which mad
0000	dome down even slower which was
In	the second week we traed at from
3.5	metres which worked a bit overall
arr	would get an the boar at would be
the	wasn't the best because just when the would get on the bag of would his floor and would sometimes break
W IU	the third week we tried it from 2.5
as	the parachute when able to coton and
280	the parachute wasn't able to catch any which made it his the ground more early but some times it wouldn't break most of the time it did
Force	early but some times of wouldn't break
but	most of the time of dad
	the next page there are some pierts to show how the went
on	THE THE THE ME





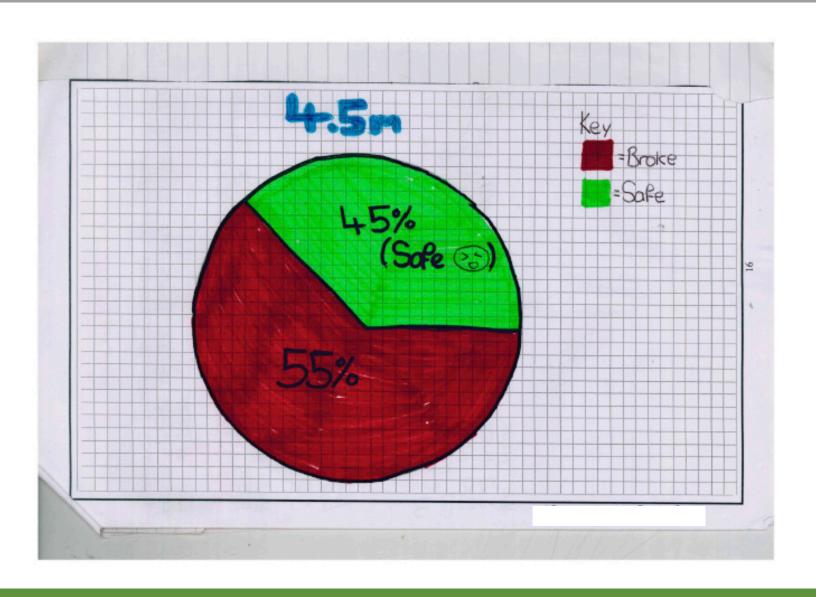


#### CBA1 Extended Experimental Investigation



5. Simple charts
are used to
present results but
there are errors;
the 27% sector is
drawn
smaller than a
quarter of the
pie-chart



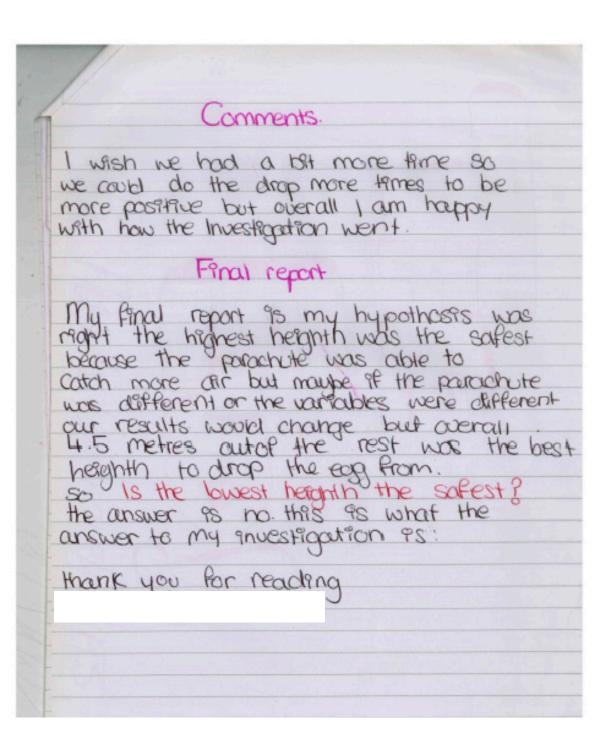




	Calculations
brea	5-7 from 4.5 metres 94 digital UK 45% of the 19me but 55% of the 94 broke
brea	> from 3.5 metres 94 dialnt k 27% of the 49 me but 73% of the 94 broke.
2.5 breat	-> from 2.5 metres 91 dedn't K 12% of the time but 88% of the 19throke.
	Evaluation of results
m	elatuation of restits are that the was safest at 4.5 metres because 91 the bliggest percentage of safty the metres clid the warst as only 12% of terme 91 was safe.



#### CBA1 Extended Experimental Investigation



6. Draws a conclusion based on data collected



**Overall judgement:** In line with expectations



