Energy	Laboratory	/25	NOMS	:	
Energy	in food				
Questi	on: Do different types of o	chips give off a differe	nt amount of ene	rgy?	
Hardw	are:				
•	Thermometer	•	Clamp stand	•	Graduated cylinder
•	Tap water Boiling tube 3 kinds of chips	•	Tweezers Candle non-flammable p	_	ital scale
<u>Hypoth</u>	nesis: <mark>(1 pt)</mark>				
<u>Variab</u>	les: (3 pts)				
Indepe	endent variable:				
Depen	dent variable:				
Contro	lled variables:				
Proced	lure: (1 pt)				
1. 2. 3. 4. 5. 6. 7.	that will allow the chips Measure the temperatu Use a candle and a splir	er to measure s to be placed undernure of the water at the strong to light the burning ey turn off. When the sinds of chips.	of water in the bo eath (as close as p e start using a thei chips and move the food is complete vater each time.	ossible). Imometer and record it not boiling tube directly ly burned, take the tention (eep the boiling tube tig	over the burning chips. nperature of the water again and
		<u>.</u>			
Data: (	6 pts)				
	Type of Potato Chip			Water temperature (°C)	
		Beginnir	g	End	Change
		Type of Potat	o Chip	Energy released (J)	

Show your calculations (1 pts)


## Conclusion: (9 pts - 3 pts each)

ook at the food labels fo	r each type of potato chip. Do	the labels support your co	onclusion well? Explain.	
			•	

3. With the support of your results and the labels, write at least 1 thing you would do differently if you had the chance to redo the challenge and **explain** your choice.