**Ways to get OUT of Physics Class**

**(Using methods actually discussed in Physical Science)**

by Raychel McLaney

commentary in blue by mr. e

(I spent about an hour on this because I was prepared... Unlike I was for your class)

(I almost made this into a powerpoint)

1. Ten year cruise

*(Did we discuss a cruise? A boat would provide a perfect context for the laws of motion…wouldn't ten months be enough?)*

1. My dog and I falling through the ice on the rare occasion it snows in Citrus County

*(The act of snowing: ch 10 thermodynamics; catching a dog on an icy pond: ch 5 momentum)*

1. Falling onto the pavement and maybe breaking something important

*(Why you fall: ch 7 gravity; why you get hurt: ch 11 electricity)*

1. Golf cart hitting/ running over me

*(I don't recall a golf cart illustration running amok, but we will include this one in honor of Mr. Allen)*

1. Throwing my face into a punch

*(Ahh…the natural consequences of CTE: chapter 5 momentum)*

1. Bungee jumping off a cliff and being poorly harnessed

*(that is, harnessed with a natural rope rather than a bungee cord: ch 5 momentum)*

1. Hole punching my fingers (or repeatedly stapling my fingers)

*(This must be a tip of the hat to the centrality of the hole puncher to my notes and the stapler to my tests!)*

1. Get hit in the face with a baseball

*(Play ball!: ch 5 momentum lab)*

1. Get shot while testing the momentum of a rifle-bullet system or somehow shoot myself (not deadly of course, just enough to get out of class…)

*(What would happen if the bullet was more massive than the rifle? ch 5: momentum)[[1]](#footnote-1)*

1. Get eaten by a big fish

*(How fast were you swimming? How fast was the fish swimming?...What would the velocity of the You-big fish system be after lunch? Ch 5 momentum)*

1. Get hit by an anvil

*(Is this an anvil simply falling?...(ch 7 gravity) or is it the one you encounter while in space? Ch 8 projectiles; if the former, then why were you under an anvil? And if the latter? I applaud you for getting into space. See #5 if you actually hit the anvil in space and welcome to a vegetative state).*

1. Jump in front of a car

*(Consider the options: is the car going at a constant velocity? Did you actually cause the vehicle to enter into a constant v? How massive would you have to be to bring the car to a stop?)[[2]](#footnote-2) Once again, the illustrious ch 5.*

1. Make a beef stroganoff and get food poisoning

*(If only the chapter could have been as delicious and easy to make as stroganoff; ch 6 Work & Energy)*

1. Live with monkeys, dress in all yellow, and wait to be eaten

*(Introduction to projectiles by means of hunting monkeys--a favorite; ch 8 preview as introduced in ch 7)*

1. Somehow all the gravity on Earth will be gone so I can float out to space and miss class

*(Newton's law of universal gravitation--you never quite know when it will come in handy; ch 7 gravity; Btw: What's the other way this could be accomplished besides fooling with the mass of the Earth?[[3]](#footnote-3))*

1. If the tangential velocity of the moon relative to the Earth is gone, it will crash into Earth and that’s probably gonna get school cancelled

*(Although it would be wrong of us to affect other classrooms, this is a thing of beauty--got the explanation correct and everything. Nerd.) ch 8 projectiles*

1. Stand on a very tall ladder on Earth’s surface and fall off

*(Considering we would beat Baumgartner's record for free-fall from space, this ranks up there[[4]](#footnote-4)…; ch 7 gravity)*

1. While completing the egg experiment, jump out of the window while cradling my egg so I’ll get out of class but still might get an A for keeping the egg safe

*(Killed two birds with one fall there…well, at least one potential bird and a non-bird pretending to be a bird; ch 8 projectiles)*

1. Grab onto two wires of different voltages and get myself electrocuted

*(This is the most thoughtful thoughtless saying in this list. Love it. ch 11 electricity)*

1. Swim and then go play with some exposed wires

*(A wonderful variation on #19; ch 11 electricity)*

1. Fall off of a roof while pretending I can fly

*(A direct result of #'s 3, 5, & 18; ch 7; a question remains: Is the grass high enough to maximize the time it takes for you to stop your momentum to keep you from missing class? Maybe. Better calculate to be sure. Ch 5)*

1. Mixing certain chemicals off of the periodic table with water and either blowing up the classroom or something important in the process

*(See #26; ch 21)*

1. Walking on coals very VERY quickly so the skin on my feet will fuse together…

*(If I found out that you missed class due to fire walking I'd probably be tempted to make it an excused absence. Go you!; ch 10 heat)*

1. Mix chlorine and ammonia

*(Cardinal cleaning rule #1: do not try at home. Or class for that matter ch 21)*

1. Mix acids with a bases to make salt but EAT ALL OF THEM

*(Fun recipe for a neutralization reaction--and proof that confidence in its full neutrality is risky to bank on; ch 21 chem)*

1. Eating water reactive chemicals that will blow me up from the inside

*(This is pretty terrifying and barely made the cut. Sorry for those of you that are visual learners. Best to specify to reduce confusion: any of the following: Hmmmn. I forgot. ch 21)*

1. Blow extremely hot steam directly onto my body

*(What if the steam is going from a higher pressure to a lower pressure? Ch 10 heat)*

1. Freeze myself like Captain America and Bucky (although they weren’t trying to get out of class)

*(Cannot truly get through a year without referencing both NOVA's "Conquest of Cold" and Marvel's Captain America. To do so would be neither safe nor cold enough. I know this--absolutely; ch 8 thermodynamics)*

1. Hit myself with a frying pan

*(Cast Iron or aluminum?--because specific heat capacity matters; ch 9 heat)*

1. Activate a lightsaber

*(And, if you are Kyle, a surprise lightsaber.[[5]](#footnote-5) I love how this one stops here--you don't even have to use it!; ch 9 heat)*

1. Pouring liquid metal into my hands and then it solidifies

*(Melting points and freezing points are really cool once you get them.[[6]](#footnote-6))*

1. Travel to the moon by bike

*(Our little nod to ET; ch 8 projectiles. While we are on the subject, here is possibly my favorite riddle: "If horses eat hay and cows don’t', how long does it take to get to the moon by bicycle?"[[7]](#footnote-7))*

1. Hurdle myself around the Earth and then launch myself off into space (I plan to ask Elon Musk for his help)

**V must be > 11.2 km/s to break this**



*(This one was heavily borrowed from Newton, so much so that it would be wrong not to cite)[[8]](#footnote-8) I will, for our visual learners, include his sketch to the right (notes added are mine):*

1. Poke a bear… A very violent bear

*(Fortunately it can only poke you with an equal an opposite poke with which you poked it…so poke gently; ch 4 Newton's 3rd law)*

1. Maybe poke said bear with a lightsaber

*(Gross--but fully understandable considering the circumstances[[9]](#footnote-9); Last Jedi unit & ch 10 heat)*

1. Ride a hoverboard and it explodes

*(Not sure whether this is more of a thermodynamic thing or electrical… more research is needed. Either way--it checks out; ch 10 or 11)*

1. Get crushed by a linebacker

*(A classic conservation of momentum demo; you guessed it, ch 5)*

1. Someone kidnaps me (someone I like at least so I won’t be so miserable)

(How'd this make the list? This is simply wrong[[10]](#footnote-10).)

1. Waking up after a long nap, realizing that I am still in Texas and that I was never actually in your class

*(Hasn't this been the agenda of Texas in regards to inclusion in the US since time gone by? Always knew you could take the girl out of Texas but…)*

1. BOGO sale at DSW (you’ll never see me again if one of those is going on)

*(Ooh. Let me know when--once every three years they stock a rogue size 15 in the discounted section…)*

1. Watching the royal wedding with Mrs. Eckart and avoiding your class

*(Nice Play. I have no chapter for this one…but my reaction to this will very much determine my day.)*

1. Get mauled by my grandmother’s (most likely) possessed cat

*(You do realize they are perfect killing machines? I always marvel that we live in harmony with them and vice versa; our family has 4 cats. I now realize that we live life on the edge.)*

1. Falling down a rabbit hole, maybe ending up in an alternate reality... one where your class does not exist

*(A beautiful combination of Lewis Carrol and Quantum Physics; ch 7 gravity; one loophole is that you will need a guide--or at least someone who can navigate what is happening to you--and them instructing you in the ways of physics is, alas, inevitable.)*

1. Time travel

*(See latter portion of #43's commentary; the same applies here)*

1. Roller Skate off the edge of the Earth

*(This could only be accomplished if:*

* + - 1. The earth Fg was minimal.
			2. The Earth was flat.
			3. Both of the above
			4. Neither of the above.

*What just happened…are we taking a quiz? If so, here's the hint:*

Be familiar with scientific vocab.

*You are welcome; ch 7)*

1. No habla ingles...

*(Ha! Yo conozco a una senora)*

1. Fake a seizure

*(I know how to deal with these. It will pass, then we can analyze the physics)*

1. Take on a job with the Ghostbusters

*(What if the line is busy?)*

1. Bring my cat to school and sic[sic] him on students until I have to take him home (at that point I won’t come back)

*(I would put money down on the fact that your cat would like me. I am Jackson Galaxy without tats…and earrings…and a gotee)*

1. Get abducted by aliens!!!

*(Sorry…but what's more scientific than that…alien abduction is like sci-fi incarnate!)*

1. Acid poisoning from eating pickles

*(What kind of pickles are you buying? Mine are pickled in a sugared vinegar. I think we have to introduce you to a new pickle supplier)*

1. Go on a world tour with Tom Hiddleston (So much better than physics)

*(Newsflash. He's dead.[[11]](#footnote-11))*

1. Shop at Sephora or Ulta all day because I would rather be there

*(A trip to these places is impossible to do without discussing the effects of both chemicals and tools on the hair and skin. Physical science strikes again; ch 2 & 21)*

1. Break the wrist, walk away

*(While it's not something we discussed in physical science, it is physical…and a nod to Anatomy & Physiology!; A&P ch 8)*

1. Spend my time in Alaska hunting wolverines with my uncle (using a freakin’ .12 gauge, whaddya think?!?!)[[12]](#footnote-12)

*(Skills. Sweet skills.)*

1. Being pulled into town (preferably by bike while I’m on roller skates)

*(This has massive ramifications…let's just see the curricular intersection: ch 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 21; if it was physical science you were avoiding…epic fail.)*

1. Skip Physics and instead take a class on basket weaving

*(What do you think will be at the heart of the class? Physical science. 'nuff said)*

1. My favorite of all: just not show up.[[13]](#footnote-13)

Physics is like a box of chocolates… Those fruit-filled, half-eaten ones that nobody likes...

1. Chapter 5, I must say, is turning out to be the illustration treasure trove of physics. Sorry, let's keep things moving… [↑](#footnote-ref-1)
2. For an idea as to how to answer this one, refer to our first problem of the year in your notes titled "How fast would I have to throw a gerbil at a locomotive in order to bring it to a halt?" [↑](#footnote-ref-2)
3. Knew you'd look. How 'bout rotating the Earth a bit more quickly…tangential v is a funny thing! [↑](#footnote-ref-3)
4. Get it? [↑](#footnote-ref-4)
5. In case you couldn't tell, the Last Jedi unit was amongst my favorites. What a great way to span the year and talk about lightsabers (When, without explanation, a bust of George Lucas pops out of nowhere mindlessly chanting "Laser sword, laser sword") Don't believe him. [↑](#footnote-ref-5)
6. And sometimes they are really, really hot. [↑](#footnote-ref-6)
7. Answer: "I don't know, motorcycles don't have doors." (Compliments of a former boss of mine, David Rusterholtz ca. 1989) [↑](#footnote-ref-7)
8. Newton, Sir Isaac (1728). *A Treatise of the System of the World*. London: F. Fayram. Retrieved 2 June 2014.; re-retrieved 23 May 2018. [↑](#footnote-ref-8)
9. ###  See [**Why Death by Lightsaber Would Be Much Worse in Real Life!**](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=video&cd=1&cad=rja&uact=8&ved=0ahUKEwjI4cXxtZ7bAhUP0VMKHV9QB18QtwIIKTAA&url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3DBRAyIXgWBWc&usg=AOvVaw2e5gkmqMHHyiwPLNQmCWso)on Youtube for the science of this scenario.

 [↑](#footnote-ref-9)
10. For the record, I never used illustrations that would include a kidnapping. (Vaporization, sending into orbit, [↑](#footnote-ref-10)
11. I realize I got carried away with this one--*Loki* is gone…Tom is still around, but I am sure he would tell you, "stay in school, lass, stay in school." [↑](#footnote-ref-11)
12. Dynamite. Well played, well played. [↑](#footnote-ref-12)
13. Discussion: the physics of tears. [↑](#footnote-ref-13)