

Hi, everyone, we're gonna do something a little different today. Yeah, because we're not able to get into the lab and really show you our safety protocols, or what we've been doing, we're gonna do something else! We are going to watch some science fails online from our friends at FailArmy, credits to them for making this compilation video. And as the wet lab lead, I'm going to tell you what not to do when you're in the lab, or I guess, in this case when you're having your kids do science experiments at home. So let's just dive right in. [Video 1 plays] First rule of the lab, well, probably not the first rule, but I'm assuming the pressure in that cannon is too high and that's why I tore a large gaping hole in his shirt. Always monitor the pressure if you have a closed canister... canister? Whatever. [Video 2 plays] Okay, let's break this down. Always be very careful when you're pouring liquid nitrogen, especially into a pressurized container. Anytime moving one pressurized gas into another pressurized container, you'd have a serious problem resulting in an explosion like this. One thing I would recommend: maybe do it behind glass or maybe in a fume hood device, where it's not all gonna send a big shock at your face. Alright, let's keep going. [Video 3 plays] Good ol' classic Coke and Mentos. 40 Mentos [and] looks like six gallons or something? I don't know... Dr. Pepper? I really don't drink that much soda, hence why [the guesses]. Yeah, it was bound to happen. Only thing I'd recommend here: it's good that you're doing it in an outdoor space. If you know it's sort of a controlled explosion, you know what's gonna happen. He could have gone in a way maybe with wear some protective eyewear. You don't want that--any of that gunk your eyes. Yeah, [that was] probably a bigger bang than I thought it would be. [Video 4 plays] Egg didn't cook. Feel bad for the girl. [Video 5 plays] Looks like another Coke and Mentos, [so it's] good that he's doing it outdoors. Again. Eyewear, maybe a lab coat--you can see that crap is sort of on him, [and] maybe like a visor. [Video 6 plays] Okay, so this one's really embarrassing to watch. Again, rocket--good thing you're launching it outside, its projectile. The pressure you know, it builds up, it shoots the rocket, whatever. It looks like something was wrong with the tower system that they had. Always make sure things like this are fastened down, especially if you're building up pressure, it's always good to fasten down. Maybe it's a beaker, so you would clamp it or something to your desk. Yeah, eyewear [is] always important. This person should have been wearing protective eyewear [and] maybe been behind a protective shield—looked like it hurt a lot, so yeah. [Video 7 plays] Always have to be very careful. We're lucky in the wet lab, we don't really deal with circuits like this too much. But yeah, this is common sense. You know, make sure you're grounded. Don't be playing with--you know--conductive material like that. [Video 8 plays] You can bet that hacker hurts bad. Like he said it's a bomb, so when you have baking soda and vinegar, you get a reaction and you know all that gas builds up and pressure and boom. Lucky he didn't get hurt. Again, eyewear, good he's doing it outside, but yeah, very, very, very poor choice. [Video 9 plays] Not very bright to do that indoors like that. I've seen that before. Not sure what's in the balloon... I think it might be like a hydrogen or something and it's just a quick sort of flame because you've given oxygen to the fire. Not really sure. It doesn't look like there's too many people that close to it. Of course, there's kids in the room. Yeah, not something I would recommend to do: a controlled explosion inside of a room. [Video 10 plays] Okay, so it looks like the fire alarm went off. [It's] good that they have that safety system in place. I'm sure the teacher is gonna be really embarrassed in the next staff meeting, but for good reason. [Video 11 plays] Classic "put-as-many-rubber-bands-as-you-can-around-the-watermelon" and wait for it to blow up. It's nice that one of them's wearing a lab coat, actually.

But yeah, I-just because it's so pressurized and you're getting those hard chunks of watermelon, I'd recommend a face shield. Even Plexiglas, standing behind [it]. I know it's hard to do that with this experiment but they should at least be wearing eyewear at the minimum. [Video 12 plays. Again, just pressurised--[they're] standing in the wrong place. Not very bright. [Video 13 plays] Pause here. This is actually nice to see them wearing the protective eyewear. You know, I think there's probably just gonna be some spillage. Yeah. Yeah, I mean, that's, that's fine. It's not dangerous substance, but it's nice to have the eyewear. So that's really it. We hope you guys enjoyed that. Unfortunately, again, we can get in the lab, but we could always use a few refreshers for the day that we eventually do. So take care.