



Teacher's Guide for:
Burning Money

Note: All activities in this document should be performed with adult supervision. Likewise, common sense and care are essential to the conduct of any and all activities, whether described in this document or otherwise. Parents or guardians should supervise children. Rock-it Science assumes no responsibility for any injuries or damages arising from any activities.

NOTE: This is the transcript of a lesson that was videotaped during an actual Rock-it Science class with real students, not actors. The students' brainstorming comments are included on the video but are not transcribed here because they're not part of the lesson presentation.

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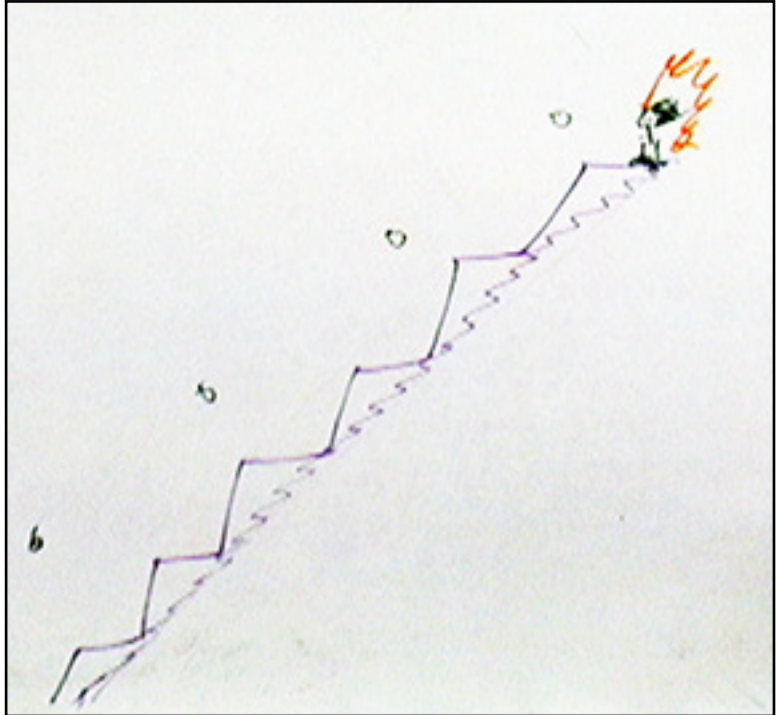
Burning Money
A Rock-it Science Lesson
Filmed November, 2010

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Intro Quick Recap:

- An expert skateboarder wanted to make a video to promote skateboards. They decided to shoot it at a place in San Francisco where there was a series of steep stairways with a continuous handrail from the top to the bottom. The skateboarder was going to grind down the handrail.
- He arranged to meet the filmmakers late at night. The filmmakers didn't understand this, because they wanted to be able to see him. But he said he knew what he was doing.
- When they got there, the videographer set up his cameras at each level of the stairs to shoot the skateboarder as he came down. The skateboarder told them they would only get one take.
- When they were all ready, the skateboarder lit a match and set himself on fire. Then he jumped on his skateboard and rode it all the way to the bottom.
- When he got to the bottom, he appeared to be unharmed except for his ankles, which were badly burned.
- Today we're going to do some experiments and try to find out why he didn't die.



Flaming skateboarder about to ride down the handrails, with cameras positioned at each level.

Experiment Quick Recap: "Burning Money"

- Students work in groups of two or three.
- Each group starts with an aluminum foil roasting pan, a ring stand (which they assemble), a small pair of grip-per tongs, a cup of water, and a barbeque lighter. Later they will also have a propane torch.

Part One: Paper Towel, Dry

- Each group gets half of a paper towel and clamps it to the ring on the stand, unfolded. The paper may be vertical or horizontal, but it must be supported by the ring.
- Instructor turns off the lights, students light the paper with their barbeque lighter and see how long it takes to burn it.

Part Two: Paper Towel, Wet

- Each group gets another half of a paper towel, soaks it in their water cup, and clamps it to the ring on the stand, unfolded.
- Instructor turns off the lights, students try to light the paper with the barbeque lighter. If it doesn't burn well, they switch to the propane torch and see how long it takes to burn it.

Part Three: Green Paper, Dry

- Each group gets a small piece of 24-lb bond paper and clamps it to the ring on the stand, unfolded.
- Instructor turns off the lights, students light the paper with their barbeque lighter and see how long it takes to burn it.

Part Four: Green Paper, Wet

- Each group gets another small piece of 24-lb bond paper, soaks it in their water cup, and clamps it to the ring on the stand, unfolded.
- Instructor turns off the lights, students try to light the paper with the barbeque lighter. If it doesn't burn well, they switch to the propane torch and see how long it takes to burn it.

Part Five: Green Paper, Alcohol

- Students are directed to NOT click their barbeque lighters while their partners are getting the next piece of paper.
- One person from each group gets another small piece of 24-lb bond paper, soaks it in pure alcohol, and clamps it to the ring on the stand, unfolded.



Clamping a piece of paper onto the ring stand.



Clamp secures burning paper onto ring stand.

- The person who handles the alcohol is NOT the one who burns the paper, because they have alcohol on their hands.
- One of their partners lights the paper with the barbeque lighter. Students can light it right away or wait until the lights go out.

Part Six: Green Paper, Alcohol, and Water

- Students get another piece of green paper and they need to figure out how to make it flame, but not burn up.
- They can dip the paper in water, or alcohol, or both, in whatever sequence they think will work.
- Lights go off, and students attempt to light the paper using ONLY the barbeque lighter.
- When the lights come back on, check to see which ones burned AND which ones are still there, not burned up.

Part Seven: Green Paper (Fake Money), Alcohol, and Water

- Students get another piece of green paper and draw on it to make it look like money. Again, they need to figure out how to make it flame, but not burn up.
- They can dip the paper in water, or alcohol, or both, in whatever sequence they think will work.
- Lights go off, and students attempt to light the paper using ONLY the barbeque lighter.
- When the lights come back on, check to see which ones burned AND which ones are still there, not burned up.

Part Eight: Green Paper (Fake Money), Alcohol & Water 1:1 Mixture

- Students get another piece of green paper and draw on it to make it look like money.
- Instructor makes a half-and-half mixture of alcohol and water, and students dip their money in it.
- Lights go off, and students attempt to light the paper using ONLY the barbeque lighter.
- When the lights come back on, check to see which ones burned AND which ones are still there, not burned up.

Part Nine: Green Paper (Fake Money), Alcohol & Water 2:1 Mixture

- Students get another piece of green paper and draw on it to make it look like money.
- Instructor adds more alcohol to the mixture, so there's twice as much, and students dip their money in it.
- Lights go off, and students attempt to light the paper using ONLY the barbeque lighter.
- When the lights come back on, check to see which ones burned AND which ones are still there, not burned up.

Part Ten: Real Money, Alcohol & Water 2:1 Mixture

- The real test is to use real money, which is made of cotton, not paper.
-

- Instructor dips an actual bill in the alcohol and water solution, turns off the lights, and lights the bill with the barbeque lighter.
- When the lights come back on, check to see if the bill survived. (In this lesson, the bill started to burn a bit.)
- The money doesn't burn exactly the same way the paper did.
- At the end of the experiment, students disassemble their ring stands and put away the equipment.

Conclusion:

- The skateboarder who rode down the rail was dressed from head to toe in wool clothing.
 - Then he had his friends smear a jelly-like substance all over him.
 - Then they put alcohol on top of the jelly, and some of it soaks into the jelly.
 - So now the skateboard is wet underneath and burnable on top.
 - They overlooked the fact that the skateboarder would be riding in a crouch, which made his trousers ride up, exposing his ankles.
 - He was wearing wool socks, and they caught fire. Although he suffered burns, it would have been worse if he had been wearing polyester or cotton socks. Those fabrics would have mixed with the skin as they burned, causing much more serious damage and requiring skin grafts.
-

Equipment List: "Burning Money"

Items needed for Instructor:

- Alcohol, Denatured, about 100 ml.
- Shallow plastic container for alcohol, about 8" square, 3" deep.
- Graduated cylinder, plastic
- Five-dollar bill.

Items needed for Students:

Consumables:

- Water, 1 cup per 2 students
- Paper towel, 1 sheet per group
- Paper, colored, 24-lb bond (2 sheets per group)

Other (per 2-3 students):

- Aluminum roasting pan
- Lab stand with ring
- Small gripper tongs
- Barbeque lighter
- Propane torch
- Cup, plastic, 16 oz

Prep Work:

- Cut paper towels in half.
- Cut green paper in half.
- Don't need to assemble lab stands -- let students do it during lesson.)



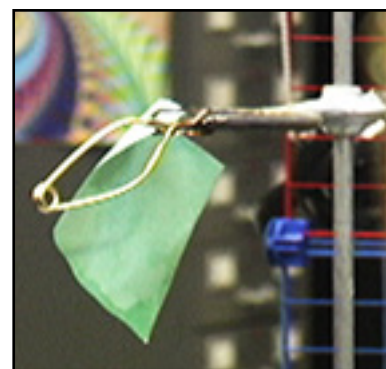
Roasting pan, ring stand, cup of water.



Propane torch.



Barbeque lighter.



Small gripper tongs.



Plastic container.

Story Recap: "Jack & Jill and the Popcorn People"



Part 1:

- Jack and Jill were raising popcorn people in Yellowstone Park.
- The Park is dangerous for popcorn people because it has hot bubbling mud pots. If they fall in, they could pop.
- If they pop, a raven might come along and eat them.
- Jack and Jill needed to guide the popcorn people on their yearly migration to Mount Valhalla.
- Valhalla was a tall mountain covered with butter on top. Thor lives there. He wears frilly clothes and carries a feather. He looks weak, but if he gets angry his feather can slice you in two, and it also shoots lightning bolts.
- Evil Mister Fred knew that the popcorn people would taste really good if they pop, and each one would produce two hundred pounds of popcorn. So he wanted to capture them and make them pop.
- He built a castle right next to their migration route and sent his minions to find the fire people, who live inside forest fires.
- He persuaded the fire people to join him and try to take over the world. In exchange, he would give them lots of things to burn up, as long as he could keep any gold and gems that he found.
- Jack and Jill are trying to guide the popcorn people quietly along the trail, but the popcorn kernels are bumping against each other and making a lot of noise.
- The minions are out watching for them, and they're supposed to bang their baseball bats against each other when they see the popcorn people. This alerts the fire people so they can go and cook the popcorn people.

Story Recap (cont.): "Jack & Jill and the Popcorn People"



Ending:

- Some of the popcorn people don't like Jack and Jill, so they don't follow their orders.
- The rest of the popcorn people let Jack and Jill cover them with grape jello to help protect them from the flames.
- The guys without the jello ran on ahead to show how brave they were, and the fire people surrounded them and started dancing around them.
- The popcorn people have short stubby legs, and they couldn't run away. Soon they popped and became giant pieces of popcorn.
- Once they popped, they were all dry on the outside, so they caught fire.
- The heat from their fire caused an updraft, and the flames drifted up into the sky.
- The jello-covered people ran right through safely. When the fire people tried to light them on fire, the jello people punched them in the stomach. That made the fire people angry.
- Evil Mister Fred told his minions to hit the popcorn people with their baseball bats to make them stop.
- The minions' baseball bats caught fire, but the minions just kept swinging them.
- When they hit the jello guys, they got jello on their bats, which made them slippery and hard to hold onto.
- The flaming baseball bats started flying out of the minions' grips, and one of them set Evil Mister Fred's hat on fire. When he tried to stomp it out, he fell off the castle.
- The flaming people were angry because Evil Mister Fred's plan wasn't working, and they started dancing around on him.

Transcript: Intro

I know a guy that was an expert at riding skateboards. And he was so good at it that they had world championships and he'd go there and do backflips and all this stuff in the air and come crashing down and not hurt himself. And they wanted to do a videotape to promote skateboards.

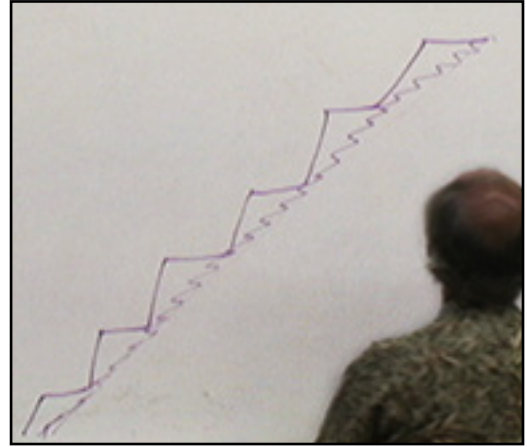
So he said, "All right. I've got something all worked out. We'll go to San Francisco." There's a real steep stairway there. It goes down flight after flight after flight after flight. And there's a handrail that goes down the whole way. He says, "I'm going to grind down that handrail from the top to the bottom. Meet me there in San Francisco at nine o'clock at night." And they said, "Night? This isn't going to be good. It's dark. We want to do it in the daytime." He said, "No. Night is good. We'll start at nine."

So they all showed up, and there was this stair thing that went down like this. And of course, being the type of people they are -- these are the stairs -- nobody showed up until ten-thirty. And they finally got everything together about midnight. And there he was. And when you grind with a skateboard, you put the skateboard crossways on the rail and then you slide down on the steel. So you've got to balance yourself on this thing. And they said, "Okay, it's dark. We can't see what you're doing. You know, you could fall down there, land in the bushes, we won't even find your body." And he said, "Don't worry. I have it all worked out. Just get all your cameras ready."

So they had a camera here, and a camera down here, and a camera down there, and a camera down here, and a camera at the bottom. And he said, "You only get one take on this." And they said, "All right. We're ready."

And he lit a match and lit himself on fire. And there he was. And he came zooming down, and it was spectacular. There's flames behind him, grinding -- badump, badump, badump -- and he made it all the way to the bottom.

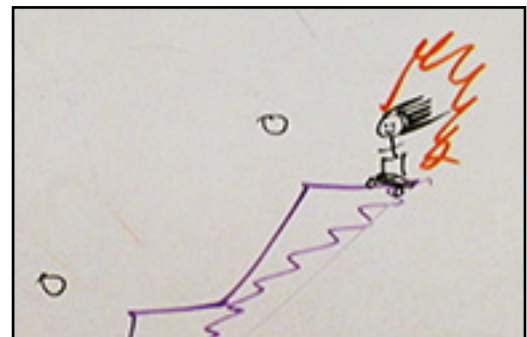
Now, the next-to-the-last cameraman down here says, "Oh, man!! You're in trouble!" He landed down there and he said, "Yeah, I made it! This is really cool!" And the guy said, "Uh, take a look at your ankles." And his ankles were just all burned and blistered and the skin was all black. The rest of him wasn't burned at all. How did he do that? Today we're going to do some experiments and try find out how he didn't die.



Stairway and handrail.



Skateboarder on rail.



Flaming skateboarder and cameras.

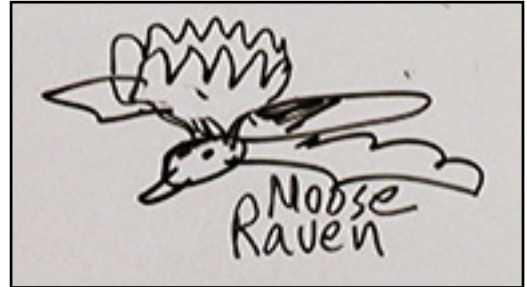
Story: "Jack & Jill and the Popcorn People"



Popcorn people at Yellowstone.

Let's suppose Jack and Jill are raising the popcorn people. And it's kind of a risky business raising popcorn people. The land that they are on happens to be -- let's see what would be a good hot spot? Oh, Yellowstone Park, because they've got all kinds of good bubbling boiling hot stuff there. They call it Yellowstone Park because the ground is yellow. And there's lots of these people out there.

It's tough being a popcorn person because if you fall into one of the bubbling mud pots, they're really hot. And you can go swimming in there, but you might pop as a popcorn person -- kacheen! And if you pop, then along comes something that's going to get you and eat you. So a raven might come along and eat you. He's got like one of those haircuts. No, that's his antlers. He's a moose raven. He might come along and eat the popcorn people.



Moose raven.

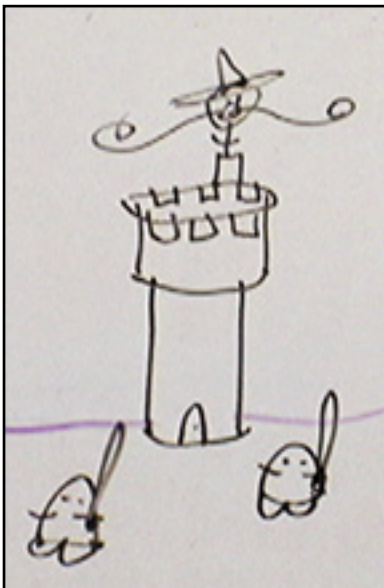
Now Jack and Jill have been hired by the popcorn people to guide them on their yearly migration. Let's see, we need some Jack and Jill here. There's Jack. There's Jill. Seems like an easy job. All you have to do is make sure they stay on the trail, travel across Yellowstone park, and don't fall into any of the mud pots or flaming things or whatever.



Jack and Jill with the popcorn people.

Well, it turns out these popcorn people, once they pop, they do taste really good. And you know, it's better than Orville Red-

denbacher's. And Evil Mister Fred is out there, and he wants to catch them because he can get a lot. You know, one popcorn person weighs two hundred pounds. But by the time you pop them, that's a lot of popcorn.



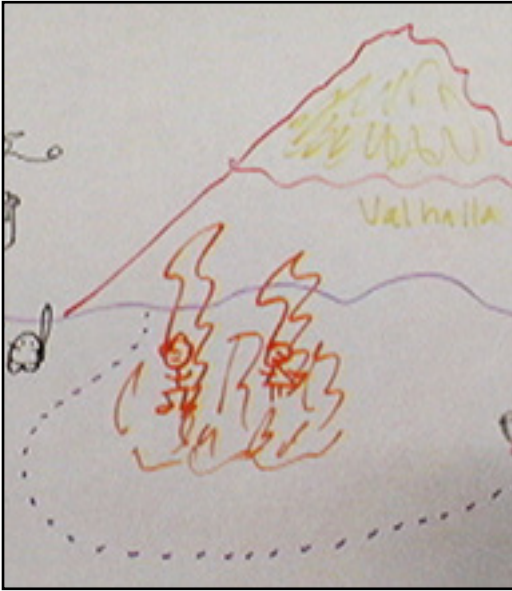
Evil Mister Fred and minions.

And Evil Mister Fred had heard from the newspaper that there was another weird kind of people living in that territory. And he sent his minions out to go find them. It wasn't hard to find them. They live inside forest fires. And Yellowstone is well known for having forest fires. And these people look like that -- fire people. They're flaming. And wherever they go, things catch on fire. They never quite figured it out. They're pyromaniacs. There's lots of them.



Fire people.

So Evil Mister Fred lured them back to his castle and made a deal with them. He said, "Hey, you work with me, I'll help you get anything you want. Anything that you want to burn up, you can have it. As long as I get everything else, like gold, diamonds, rubies, stuff like that. And we'll just take over the world together." And the fire people said, "Wow! That does sound like fun. And you won't let anybody pour water on us?" And he said, "Yup! I'll protect you. I've got my minions out there. They're brave! They're tough! They'll protect you from anything." And the fire people say, "All right! This is good."



Trail leading to butter-covered Valhalla.

Well of course, about that time, Jack and Jill and their popcorn people are on their migration. They have to go past Evil Mister Fred's castle. They've got to get somewhere. They're going to Valhalla. Valhalla happens to be a really big mountain, and Valhalla should have a lot of butter on it. I think it's the Hall of the Gods in Norse. What's the name of a Norse god? [Students: Loki. Thor.] Thor.

And Thor lives up there. Thor wears blue pants and ruffy shirts, and he wears a fluffy hat. He always goes barefoot. And he carries a big feather. This is Thor. And Thor looks like a real wimp. People call him Faunt-Leroy Thor. And everybody makes fun of Thor, but they don't make fun of him too many times because one swish of his feather -- whoosh! -- he'll cut you right in half. Deadly feather. And it probably should shoot out lightning as well, if he wanted to.

So Jack and Jill are walking by Evil Mister Fred's castle, trying to tiptoe really quietly. And popcorn guys are made out of kernels. And they bang into each other, and they're making a lot of noise. And Evil Mister Fred has his minions out there watching and waiting for them. And the minions are supposed to signal the fire people by banging their bats together so the fire people can go out and cook the popcorn folks. Now, if you were Jack and Jill, and you want to get past this, up to Valhalla to meet Faunt-Leroy Thor, what would you do?



Faunt-Leroy Thor, with feather.

Imagination and Brainstorming Time

[Students make suggestions] (THERE ARE NO WRONG ANSWERS! Whatever they say, you should reply: "That's a good idea," "They might do that," etc. After brainstorming, proceed with the experiments, then finish the story.)

We'll leave this "To be Continued . . ."

Experiment: "Burning Money"

Well, you can guess we're going to be doing some experiments with fire today. And it's preferable that you guys don't burn up, or you burn up the tables. So you're going to set up a tray, and you have to put a stand on the tray, and then put a ring on the stand -- up high is good. And then you've got a handy-dandy gripper that you can either rest up here or clamp up there and use it to hold stuff.

Whatever is being held up here, we're going to light it on fire and see how it burns. We'll be lighting it on fire with barbeque lighters. And if the barbeque lighters don't have enough power, then we'll try the propane torches and see how it burns.

When we're burning stuff, you don't want to be sitting down in case the ashes landed on your lap. You don't want to do the ooh-aah-ooh-aah dance, so you should push your chairs either all the way in or all the way out. And you'll need a fire extinguisher, too. So go get stuff, work in groups of two or three. There's water in buckets, water in sinks, wherever you want it, there's water. *[Students assemble their lab stands.]*

Part One: Paper Towel, Dry

[An assistant passes out a piece of paper towel to each group.] First thing we're going to be burning is a piece of paper towel. You want it so it's not just resting there, but held in one of those brass [clamps]. You want the weight of the brass thing to hold down the paper. Clamp it to the ring, or you can do it the

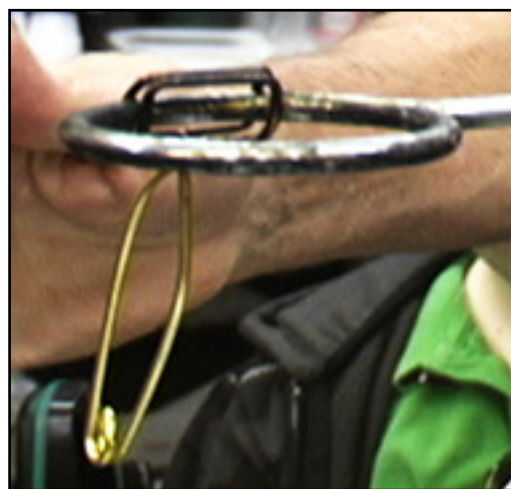
way [student] has got it. You should unfold it, because it's better unfolded. Now, some of them are vertical, some of them are horizontal. I'm going to turn off the lights, you light them on fire, and see how they burn. *[Lights off, students light paper.]* Now you know how long it takes to burn one of those. *[Lights on.]*



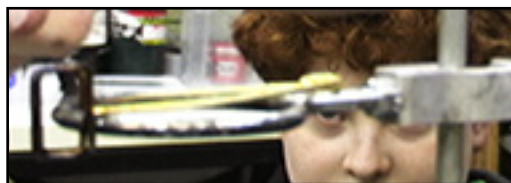
Paper towel burning.



Students set up their ring stands.



Clamp clipped onto the ring.



Clamp resting across the ring, which would allow the paper to hang vertically.

Part Two: Paper Towel, Wet

[Assistant hands each group another piece of paper towel.]

The new one, you get it all wet, squeeze the water out, and then mount that on your rack. Soak that one in water. Just dip it in your fire extinguisher. And then support it the same way you did last time. No folds, just the same way you had it last time. Okay, I'm going to turn off the lights, and then burn it up. *[Lights off, students try to burn paper.]* Do you need more power? *[Lights on.]* Come over here and get a propane torch. Remember safety rules: Point them away from you and other people. Turning on is counter-clockwise. Light the torch, not the paper. They light better if they start low. Once you've got the torch, then you can burn it. *[Students use torches to burn paper.]* That flame is two thousand degrees. *[Paper takes longer to burn.]* Notice that [student] has some of his draped over the metal and it doesn't burn where the metal is.



Using a propane torch.

Part Three: Green Paper, Dry

Now we're going to try a different kind of paper. Turn off your torches. Over on the stand where you got all the other equipment, there is a bowl with green sheets of paper. Go get a green sheet of paper. You can just light these with the barbeque lighters. *[Lights off, students light green paper. They flare up quickly and burn brightly.]*

Part Four: Green Paper, Wet

[Lights on.] Now go get another green piece of paper, get it all wet, hold it the same way and burn that. Make sure it's good and wet. Might have to soak it for awhile. Then hold it the same way you did before. And try to burn it with just the barbeque lighter first. *[Students try to light the paper with the barbeque lighter. It doesn't work very well.]* If it doesn't work with the barbeque lighter, then try it with the torch. *[Lights off, and students try to burn the paper with torches. It takes a little while to get started, then it burns.]*

Part Five: Green Paper, Alcohol

[Lights on.] Okay, this time the people with the lighters have to NOT be clicking the lighters when your partner is bringing this over. We don't want to hear any clicky-clicky sounds. Your partner is going to take a green piece, dip it in pure alcohol, take it over with you, and light it on fire. The one that's holding the alcohol piece is not the one who does the lighting, because they've got alcohol on their fingers. When you get there, it's your choice. You can light it on fire as soon as you get there, or you can wait until we have lights off. *[Lights off.]* Okay, try burning that. *[Paper flares up quickly and creates a large flame that continues to burn for several seconds.]*



Dipping paper in alcohol.

Part Six: Green Paper, Alcohol, and Water

[Lights on.] Now, your job is to take another piece of green paper and make it so it flames but doesn't burn up. Make it so it flames but it doesn't burn up. *[Student: Are we supposed to dip it in alcohol?]* You have to figure it out. You dip it in something so that it looks like it burns, but then doesn't burn up. *[One student succeeds.]* Ah, we have success. There were flames on the paper, and the paper is still there. I would use the barbeque lighter rather than the torch. You want it to NOT burn up. *[Lights off.]* Try to make it flame and not burn up. *[Only a few students are successful.]*

[Lights on.] Now we had a couple of them who were successful, and then they couldn't resist the temptation of burning the paper up anyway.



Alcohol flames (without water).

Part Seven: Green Paper (Fake Money), Alcohol, and Water

Now, the ultimate test is to take a ten-dollar bill and do it with that. You didn't bring a ten? Go get another green piece of paper and draw on it so it looks like currency. *[Students draw on green paper.]* Now you have to make it so that you get giant flames but no burning paper. *[Students dip their paper in alcohol and water.]* You can either burn it now or wait for the lights. *[Lights off.]* Use your barbeque lighter, not the torch. You're trying to make flames, but no burning paper. Don't re-light your paper after it goes out. We want to know who's been successful. If you burn it up after you're done, we won't believe you.

Part Eight: Green Paper (Fake Money), Alcohol & Water 1:1 Mixture

So some worked and some didn't. Now, you want to make new currency, but this time you don't get to dip it twice. You only get to dip it once. Let's make a solution. Somebody said half-and-half. We'll try half-and-half. First test will be half-and-half. There's fifty milliliters of alcohol, and we're going to need fifty milliliters of water. *[Instructor measures out alcohol and water and mixes them together in a dipping tray.]* Okay, the dipping solution is over here on this table. It's currently half water and half alcohol. *[Students dip their paper in the solution.]* See if they flame. *[Lights off. Some of the papers burn.]* Okay, let's look at them and see how much paper survived. *[Lights on.]* They all survived, but they didn't flame very high.

Part Nine: Green Paper (Fake Money), Alcohol & Water 2:1 Mixture

Now you can use the same money, or you can make new money. We're adding more alcohol this time. *[Instructor pours remaining dipping solution into a graduated cylinder.]* What we've got is seventy milliliters of half-and-half. If we want to make it two-to-one, how much more should we add? *[Student answers.]* All right. If you've got a half-and-half solution and you want to make it two-to-one, and there's seventy milliliters in here, add thirty-five milliliters of alcohol. *[Instructor adds alcohol to the solution.]* Dip them and try them out. *[Lights off. Students light papers, and most of them flare up quickly.]*

Part Ten: Real Money, Alcohol & Water 2:1 Mixture



Five-dollar bill.

[Lights on.] Now we need to try real money. Let's try a five. *[Instructor takes out a five-dollar bill.]* I'm only going to do one sample with my money. If you have your own money, you can burn your own money. Money is not made out of paper. It's made out of cotton. *[Instructor dips money in solution and holds it up with a clamp.]* Okay, here goes the money. *[Lights out.]* Five, four, three, two, one, let 'er rip. *[Money flares up brightly, then a corner of the bottom starts to burn.]* Oh, no. *[Instructor blows it out.]* So money doesn't burn exactly the same as the paper did. *[Lights on.]* We let it soak a long time, and you can see the corner got toastified. The bank will give you full return on it. *[Student: It's still*

wet.] It's wet because the water soaks in.

Now we need to put the equipment back. So you need to take it apart and put all the pieces back on the rack. No more lighting.

Conclusion:

So the guy who was riding the skateboard down the rail in San Francisco, he was wearing wool clothes. He had on a wool shirt, wool pants, wool socks, which didn't do him much good. He had regular tennis shoes, a long-sleeved shirt, and he was wearing wool gloves, a wool pullover hat, and he had all of his buddies smear him with stuff that looked like jello. There was just this clear jelly-like liquid. They smeared that all over him. And after he's all jellified, then they put the alcohol on top of the jello. And the alcohol is retained in the jello. It kind of soaks it up a little bit.

But now he's all wet underneath and burnable on top. Only thing they didn't do is realize that when he's skateboarding, he's down like this *[crouches]*. His pants hiked up a little bit, and his socks caught on fire. And wool, even though it doesn't burn that well, when it does get started, burns really well. And it was nice that it was wool, because the cloth didn't burn into his skin. If he had used polyester socks or cotton socks, as they burn, they mix with the skin. And then the doctor looks at that and says, "Sorry, we've got to take all this stuff off." And then they have to do a graft on it to fix your ankles. His ankles managed to re-heal back up with the new skin. But there are crazy people who are willing to do stuff like that.

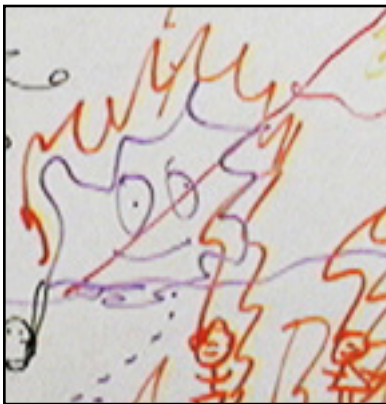


Alcohol flaming on five-dollar bill.

End of Story

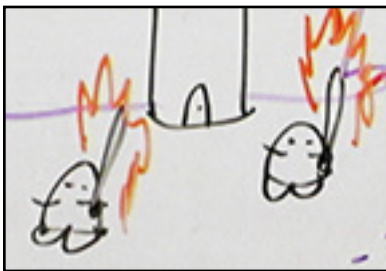
*** DO NOT * present this part of the lesson until after the experiments!**

So now Jack and Jill have to take their popcorn people past Evil Mister Fred's minions and the fire people. And they think, "Oh, no, what are we going to do?" Now they could either be successful or fail. Let's suppose the popcorn people, some of them are for Jack and Jill and some of them are against it. So the ones that are for Jack and Jill, they cover them with grape jello to protect them. And the other ones say, "Oh, you sissies! You can't deal with those fire people? You've got to put grape jello on yourself? Hey, be a man! We'll show you how this is done." So the guys without the grape jello ran ahead of everybody else. They got to the fire people and the fire people said, "Yay! Let's go and have fun!" And they started dancing around the guys. And the popcorn people are going, "Uh-oh!" They've got short stubby legs. They can't run fast. And the fire people are just dancing circles around them, and pretty soon the popcorn people pop. And they become these huge giant kernels. And they're kernel people now, like that -- boingggg!



Flames rising from popcorn guy.

Now, once a popcorn thing pops like that, he's all dry on the outside. And as they caught on fire, they created an updraft and drifted up into the sky. There are flames up in the sky. Jack and Jill looked up, and they were horrified -- "Aaaahhhh! I'm horrified!" they said. And the jello people came running along. The jello people went right through, and the flaming guys tried to light them on fire. The jello people walked right up and -- boom! -- hit them in the stomach. And a flaming guy hit in the stomach doesn't like that.



Minions with flaming bats.

And Evil Mister Fred told his minions, "Minions! Go out there! Hit those popcorn people! Stop them from doing that!" So the minions all ran out to hit the popcorn people with their baseball bats, and their baseball bats caught on fire. There, like that. And the minions don't care. They're still swinging these bats all over the place. And they hit a few of the jello guys, and pretty soon there's jello all over their mustaches. And jello is slippery.

So now as they're swinging their baseball bats, the baseball bats are flying all over the place -- "Bash! Bash! Whoop! Where'd it go?" Flying bats. Now Evil Mister Fred's hat is on fire. And Evil Mister Fred can't

stand that. It was a brand new hat. He paid fifty bucks for that hat. And he's trying to stomp it out, and he fell off the castle. And the flaming people said, "This is not working. What kind of a leader are you?" And they started dancing around on Evil Mister Fred. And they all lived happily ever after, except Evil Mister Fred.



Hat on fire.

End of Lesson

If you have questions about this lesson, please ask them through the online [Teacher Support Forum](#) on our web site.

