

## If the Egg Fits...

### Characters

Narrator: (very authoritative)

Mr. Snooze: (sometimes falls asleep in class)

Chica: (really playful)

Jack: (kind of a smarty pants)

A small group of children in the science lab

Ms Red Path: (the Science teacher)

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### All: If the Egg Fits...

**Narrator:** I have decided that this script is about a science demonstration that takes place in the school's shining new science lab. The children participating are very QUIET.

**Ms Red Path:** Chica, what are you doing?

**Chica:** (hesitantly) Oh, nothing, nothing! I was just, umm, looking at the science book. Yeah, that's right, looking at the science book .

**Jack:** Oh, tell the truth, Chica! You were playing with your Barbie!

**Ms. Red Path:** Is that true, Chica?

**Chica:** (Sheepishly) Yeah. Sorry.

**Ms. Red Path:** OK, Let's save the toys for the playground. And now let's get on with learning about the amazing world of Science. Chica, can you tell me what we need for the experiment?

**Chica:** Hmmmm, I don't know.

**Ms Red Path:** Children?

**Children:** (In unison excitedly) We need a hard boiled egg with the shell removed, a bottle whose top is slightly smaller than the egg, a piece of paper and matches.

**Narrator:** Ms. Red Path opens the cupboard and takes out the materials. She sets them on the counter and turns to Mr. Snooze.

**Ms Red Path:** Good. So now, it's over to Mr. Snooze. I will be right back.

(Ms. Red Path goes out).

**Mr. Snooze:** (falling asleep) Thank you. Now ZZZZZZZZZZZZ...

**Children:** Should we wake him up?

**Chica:** No, because he's like a bear with a sore head when he wakes up. The same thing happens to my great aunt. She's got narcolepsy, which means she falls asleep all the time. She can't drive or anything because of it. We always let her wake up by herself. My mom says it's best.

**Children:** Yes, you are right.

**Chica:** Great! Now we can play with my Barbie!

**Jack:** Now Chica, although there's absolutely nothing wrong with playing with your Barbie, I think I'd like to take this opportunity to teach the class.

**Children:** No, No, No, No, No, No and NO!!!

**Mr. Snooze:** (Wakes up startled) What? What? What's the problem...?  
ZZZZZZZZZZZZZ...

(Ms. Red Path comes back in smelling of coffee).

**Ms Red Path:** What are you doing sleeping during your time to teach class?!!!

**Mr. Snooze:** Oh, was I sleeping? I'm sorry. ZZZZZZZZZZZZZZ

**Ms. Red Path:** Well, now we will continue with what we were going to do. Chica, what is the first step?

**Chica:** First, you crumble up the paper and put it inside the bottle.

**Ms Red Path:** Jack, what is the second step?



**Jack:** The second step is to light the match.

**Ms Red Path:** Very good, Jack. You did your homework. Children, tell me about the rest of the experiment.

**Children:** (*Excitedly*) The next thing you need to do is drop the match inside the bottle and quickly place the egg on top of the bottle.

**Ms Red Path:** Well done. Now, Jack, what is your prediction about what will happen?

**Jack:** (*sounding smart*) I think the egg will seal the top of the bottle and then the flame will burn up all the oxygen and the fire will go out.

**Ms Red Path:** ...and your prediction Chica?

**Chica:** I think the flame will burn the bottom of the egg.

**Ms Red Path:** Well, let's try it.

**Narrator:** Miss Red Path lights the match and drops it into the bottle. Chica quickly places the egg on the bottle.

**Ms Red Path:** Okay, audience, we can all see that the egg popped into the bottle, but we'd like you to explain to the person next to you why you think it happened?

(*Allow a minute for the audience to explore the concept*)

**Ms Red Path:** Ok, let's hear some of your thoughts.

**Jack:** I think the flame consumed the oxygen inside the bottle and this reduced the air pressure. Then the greater air pressure outside the bottle pushed the egg into the bottle.

**Ms Red Path:** Extremely good prediction Jack. And many scientists would agree with you. But, in reality, when the oxygen is burned it is replaced by carbon dioxide and water, so the pressure should remain almost the same. But what other factors were involved in this experiment?

**Jack:** Well, there was heat. The bottle became a little warm after we burned the paper.

**Ms. Red Path:** Exactly. Due to the heat, some of the molecules inside the bottle “escaped”. This did cause a change in pressure. The outside pressure was greater than the pressure inside the bottle. So the egg was pushed in. The air expands and then contracts as it is heated and then cooled. So a vacuum is created inside and the outside air pressure pushes the egg through.

**Chica:** Now, how do we get the egg out of the bottle without breaking the egg or the bottle?

Any suggestions?

**Ms. Red Path:**

**Jack:** Well, I guess we would have to put a lot of air into the bottle and then turn it upside down with the egg blocking the opening. Maybe the air pressure inside would push the egg out.

How can you get air inside the bottle?

**Chica:**

**Jack:** Well, I guess the best thing would be to blow into it? Any volunteers?

**Children:** Yuk! No thanks.

(yawning) Well, I think we can start now.

**Mr. Snooze:**

**The End**

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