

**EXAMPLE OF A 4<sup>th</sup>/5<sup>th</sup> GRADE  
INVENTION SCIENCE FAIR PROPOSAL**

**THIS IS THE LEVEL OF DETAIL WE ARE LOOKING FOR...**

**Name(s):** Jim M

**Teacher:** Mrs. Miller

**Name of Invention:** Sandwich Saver

**Problem your invention may solve:** My family makes all of our lunches on Sunday. By Friday, my sandwich tastes stale. How can I make my sandwich taste better?

**How will you build your invention? Why do you think your invention will work?:** I will build a sandwich saver kit with separate containers for the bread and the other sandwich ingredients. I think my sandwich tastes stale because the ingredients leak into the bread and make it soggy on the inside, and the bread dries out in the air over the week. My sandwich saver will keep everything apart, will have a spreader to let me make my sandwich right before I eat it, and will keep the air away from the bread.

**What will you measure to see if your invention works?**

I will use the following hardness scale for the bread:

Hardness

- 1 soft
- 2 soft but a little hard on the surface
- 3 soft in the middle, but stiff on surface
- 4 stiff in the middle and crunchy on the surface
- 5 stale – hard all the way through

Taste

- 1 fresh, yeasty, sweet
- 2 less fresh, just a hint of yeast
- 3 not much bread taste, not sweet
- 4 dry and a little stale taste
- 5 completely stale taste – stinky

I will buy several loaves of the same yummy bread from my favorite bakery. I will make a sandwich on Sunday, and I will also put the ingredients for the same sandwich in my Sandwich Saver. On Friday, I will make another fresh sandwich. I will cut all three sandwiches into five pieces.

I will have five of my friends eat a piece from all three sandwiches and rate the sandwiches by hardness and taste.

**Please add the following to the end of your proposal:**

**Do you need an electrical outlet?** Yes or No (circle one)

**Teacher signature:** \_\_\_\_\_ (Approval necessary).