

## Science Lesson Plan

**Teacher:**

**Period:**

**Class:**

**Date(s):**

<b>SETTING THE STAGE</b>	
<u>Essential Question</u>	Why would you ever need a procedure for making a peanut butter and jelly sandwich?
<u>Content Objective(s)</u> (Student-friendly)	This lesson will discuss the importance of being able to explain clearly and concisely an individual's work and ideas to other people. I will discuss the importance in engineering of writing procedures which I have a lot of experience in and how it can be difficult when you know something really well to break it down into basic steps.
<u>Connection to previous or future lessons</u>	This lesson will transfer to all lesson because a major part of the Statistics class and written communication skills.
<u>Critical Thinking Questions</u>	Do you think you would ever have to write a procedure for something you think most trained people could do? Do you know what ISO 9000 is?
<u>Key Vocabulary</u>	Procedure Documentation
<u>Materials Needed/Safety</u>	Peanut butter Jelly Loaf of bread Measuring spoons
<b>ACTIVE INSTRUCTION</b>	
<ul style="list-style-type: none"> <li>• Launch (Engage)</li> </ul>	Can you write down exactly the steps of something you can do very well to someone who has never done it?

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### Teacher:

<ul style="list-style-type: none"> <li>• Investigation (Explore)</li> </ul>	<p>I will have the students write down their steps in making the PB &amp;J sandwich and then we will go over as a class the precise way to make it. Then they can compare the procedure to their initial procedure. I will have a student volunteer to write the steps on the board so the students can copy in their journals after we are finished. I will start by asking, “what the first step in making the sandwich is”. I am anticipating something like “put the peanut butter on the bread” which I will then take the whole jar of PB and put it on the loaf of bread. I hope this will help them start to see how technical and basic they need to be.</p>
<p><b>TIME FOR REFLECTION</b></p>	
<ul style="list-style-type: none"> <li>• Summarization (Explain &amp; Extend)</li> </ul>	<p>I will explain that you will do a lot of important work in your engineering career but if you are unable to explain clearly to others then it is somewhat useless and that almost half of your time could be communicating your work to others.</p>
<ul style="list-style-type: none"> <li>• Assessment (Evaluate)</li> </ul>	<p>I did first get a lot response that “everyone knows how to do this” and “why would you ever need to write this”. My response is that this is for our business and you want to make sure your sandwiches are consistent and that your employees are not wasting the product and that when a customer asks for extra jelly that you will have a reference point for that.</p> <p>I will assess them by their responses and if they start to get more accurate as we go along. I will also read their journals to see if they have any questions. I think the homework assignment is a good assessment of their understanding. You could even take one of the best assignments and actually do it in class.</p>
<ul style="list-style-type: none"> <li>• Homework</li> </ul>	<p>Write a procedure for something that you like to do or that you do well.</p>