**Name:  
  
Date:  
  
SBA:** #  
  
**Topic:** Planning and Designing – Measurement and Units  
  
**Problem:** April and June were asked to find the length of her school’s multipurpose hall without the aid of any traditional measuring devices. A hall is a large open space indoors that usually does not have any upholstery. Plan and design an experiment that may aid them in accomplishing the task above.  
  
**Hypothesis:** (*this is the proposal of what you think is going on based on the limited data that is being presented in the problem*)  
  
**Aim:**  
  
**Apparatus/Materials:**  
  
**Method:** (*must be written up as instructions* *in present tense*) **1.** Set up the apparatus as shown in the diagram.  
**2. ..**  
  
 **Diagram:** (Draw something appropriate complete with labels and heading)   
  
**Variables**:  
**a.** Independent/Controlled – (what stayed the same)  
**b.** Manipulated – (what was used example type of instrument used or time done in)  
**c.** Dependent/Responding – (what ever is being tested)

**Expected results:** (*possible table goes below*)

Table 1. Showing the possible results of the lab

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**Assumption, Precaution or Limitation:**

**Name:  
  
Date:  
  
SBA:** #  
  
**Topic:** Planning and Designing – Measurement and Units  
  
**Problem:** A group of fifth form students would like to determine if they could prove via experimentation the value of gravity in their area.Plan and design an experiment to aid the students in experimentally determining the value of gravity  
  
**Hypothesis:** (*this is the proposal of what you think is going on based on the limited data that is being presented in the problem*)  
  
**Aim:**  
  
**Apparatus/Materials:**  
  
**Method:** (*must be written up as instructions* *in present tense*) **1.** Set up the apparatus as shown in the diagram.  
**2. ..**  
  
 **Diagram:** (Draw something appropriate complete with labels and heading)   
  
**Variables**:  
**a.** Independent/Controlled – (what stayed the same)  
**b.** Manipulated – (what was used example type of instrument used or time done in)  
**c.** Dependent/Responding – (what ever is being tested)

**Expected results:** (*possible table goes below*)

Table 1. Showing the possible results of the lab

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**Assumption, Precaution or Limitation:**

**Planning and Designing**a. Hypothesis /2  
Correct (1)  
Testable (1)  
  
b. Aim /1  
  
c. Materials and Apparatus /1  
  
d. Method /2  
Appropriate (1)  
Correct tense (1)  
  
e. Variable /3  
i. Controlled Variable (1)  
ii. Manipulated Variable (1)  
iii. Responding Variable (1)  
  
f. Expected Results /2  
Appropriate (1)  
Given (1)  
  
g. Assumption /1  
  
h. Precaution /1  
  
i. Limitation /1  
  
**Total: 14**