Identifying Variables in Scientific Experiments

Name:

Tonya and Dylan were doing an experiment to see what happens when baking soda and vinegar are mixed together in a "closed system". Look at the pictures of the investigation to answer the questions below.







1-What is the question they are trying to answer?

2-What is the independent variable?

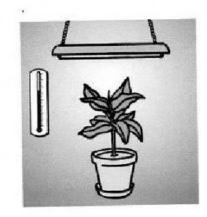
3-What is the dependent variable?

4-What did they keep the same (controlled)?

5-Write a conclusion for the experiment?

A student was doing an experiment using the scientific method. A picture of the student's project is shown below.





There are different variables in the experiment:

- a. the type of soil the plant is growing in
- b. the brightness of the light is shining on the plant
- c. the temperature of the air in which the plant is growing
- d. the plant type
- e. Plant Growth

Look at the picture carefully, from the above experiment identify:

One variable that is changed (choose from the above and write it in the box below)

The variable that is measured (choose from the above and write it in the box below)

The **variables** kept the **same** (choose from the above and write it in the box below, use comma to write the variables)