<u>Preface</u>: In the 1800's, the famous French scientist Louis Pasteur became convinced that the tiny, microscopic bacteria that he was studying could cause diseases in animals and in humans.

<u>Directions</u>: First read the complete description of Pasteur's work (letters A. to G.). Then, for each lettered statement describing Pasteur's work, <u>match</u> the number of the step in the <u>Scientific Method</u> that the statement is an example of. After you are done, you will have listed the steps in the Scientific Method in their proper order.

Description of Pasteur's work	Step in the Scientific Method
A. One of the things which puzzled Pasteur about bacteria was the question of where they came from.	 1. Which of these statements was Pasteur's <u>conclusion</u>?
B. He tried to answer this question by guessing that bacteria are all around	 2. Which of these statements was Pasteur's problem?
us in the air.	3. Which of these statements describes his <u>control</u> ?
C. To see if his guess was correct, Pasteur took a flask with clear soup in it, and heated it until he was sure there were no more living bacteria in it. Then he sealed the opening of this	 4. Which of these statements describes the <u>application</u> of Pasteur's work?
flask shut D. He did the same thing with another flask	 5. Which of these statements describes the <u>observations</u> he made?
with soup in it, but this time he left	6. Which of these statements
the flask open to the air so that he could have a comparison with the first flask which he had sealed.	describes his <u>experiment</u> ?
 E. After about a week, Pasteur saw the following: The flask which had been heated and sealed had soup which was still clear, with no bacteria in it. The flask which had been heated and left open now had soup which was cloudy, and had many bacteria in it. 	7. Which one of these state- ments describes Pasteur's <u>hypothesis</u> ?
F. After repeating his work may times, Pasteur became convinced that the answer to his original question of where do bacteria come from, was that bacteria do come from the air around us.	
G. Today, as a result of the work of Louis Pasteur and other scientists, the air in operating rooms is always filtered to remove bacteria which might cause an infection in a patient.	