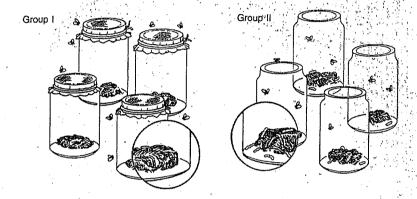
CAN YOU SPOT THE SCIENTIFIC METHOD	- CRITICAL THINKI	NG/PROBLEM SOLVIN	1G		
Name	<del></del>				
Date					
Period					
Each sentence below describes a step of	the scientific meth	nod. Match each sent	ence with a ste	o of the scien	tific metho
listed below.					
A. Recognize a problem					<b>y</b>
B. Form a hypothesis					
C. Test the hypothesis with an experimen	i <b>t</b>				
D. Draw conclusions			4		
1. Stephen predicted that seeds wo	uld start to grow f	aster if an electric cur	rent traveled th	nrough the sc	il in which
they were planted.		***************************************			
2. Susan said, "If I fertilize my geran	ium plants, they w	ill blossom."			
3. Jonathan's data showed that hou	sehold cockroache	es moved away from I	raw cucumber s	lices.	
4. Rene grew bacteria from the mounthwashes on bacteria on each plate.	uth on special plate	es in the laboratory. S	he placed drop	s of different	#0.50 4.11 
5. Kathy used a survey to determine handed.	e how many of her	classmates were left-	handed and ho	w many were	e right-
6. Jose saw bats catching insects aft	er dark. He asked,	"How do bats find th	e insects in the	dark?"	
7. Justin wondered if dyes could be t	aken out of plant	leaves, flowers, and s	tems.		1
8. Alice soaked six different kinds of cm. She used the same amount of water,	•		planted the seed	ds in soil at a	depth of I
9 Bob read about growing plants in	water. He wanted	I to know how plants	could grow with	nout soil.	
10. Kevin said, "If I grow five seedlin white light."	gs in red light, I th	ink the plants will gro	w faster than tl	ne five plants	grown in
11. Angela's experiment proved that	t earthworms mov	ve away from light.			
12. Scott said, "If acid rain affects pl in the same water."	ants in a particula	lake, it might affect	small animals, s	uch as crayfis	sh, that live
13. Michael fed different diets to the vitamin C and protein in their diets.	ree groups of guin	ea pigs. His experime	ht showed that	guinea pigs n	ieed
14. Kim's experiment showed that c calcium had been added.	hicken eggshells w	vere stronger when sh	ie gave the hen	feed, to whic	ch extra

## Scientific Method

Long ago, many people believed that living things could come from nonliving things. They thought that worms came from wood and that maggets came from decaying meat. This idea was called spontaneous generation. In 1668, an Italian biologist, Francesco Redi, did experiments to prove that maggets did not come from meat. One of his



experiments is shown below.

Redi placed pieces of meat in several jars. He divided the jars into two groups. He covered the first group of jars with fine cloth. He left the second group of jars uncovered. Redi observed the jars for several days. He saw flies on the cloth of the covered jars, and he saw flies laying eggs on the meat in the uncovered jars. Maggots appeared only on the meat in the group of jars left uncovered.

1. Scientists use a series of organized steps call problems. List the steps that are often used.	led scientific method to solve
probleme. Electure elept triat are enterraced.	
2. What was the problem in Redi's experiment?	
3. What do you think his hypothesis was?	
4. How did he test his hypothesis?	
5. What was the variable in his experiment?	
6. What was the control in his experiment?	
7. What do you think Redi's conclusion was.?	