Scientific Method Name	Controls and Variables – Part 1
	e been busy doing a little research. Read the
thinks will reduce the production of body ga Krab. He recruits 100 customers with a hist crabby patties with the new sauce. The other like new sauce but is really just mixture of m they were getting the sauce that would reduce	n nicer place to live. He has created a new sauce that he as associated with eating crabby patties from the Krusty ory of gas problems. He has 50 of them (Group A) eat 50 (Group B) eat crabby patties with sauce that looks just ayonnaise and food coloring. Both groups were told that gas production. Two hours after eating the crabby patties, wer gas problems and 8 customers in group B reported
Which people are in the control group?	
What is the independent variable?	
What is the dependent variable?	
What should Mr. Krabs' conclusion be?	
Why do you think 8 people in group B reporte	ed feeling better?
develops a nasty slime and gives off a horrible on the shell is the perfect cure, while Sandy s	suffering from slimotosis, which occurs when the shell e odor. His friend Patrick tells him that rubbing seaweed says that drinking Dr. Kelp will be a better cure. Sponge with seaweed for 1 week and having him drink Dr. Kelp. and Garv's shell smells better.

After a week of treatment, the slime is gone and Gary's shell smells better.

What was the initial observation?

What is the independent variable?

What is the dependent variable?

What should Sponge Bob's conclusion be?

## 3 - Marshmallow Muscles

Larry was told that a certain muscle cream was the newest best thing on the market and claims to double a person's muscle power when used as part of a muscle-building workout. Interested in this product, he buys the special muscle cream and recruits Patrick and SpongeBob to help him with an experiment. Larry develops a special marshmallow weight-lifting program for Patrick and SpongeBob. He meets with them once every day for a period of 2 weeks and keeps track of their results. Before each session Patrick's arms and back are lathered in the muscle cream, while Sponge Bob's arms and back are lathered with the regular lotion.

Which person is in the control group?

What is the independent variable?

What is the dependent variable?

What should Larry's conclusion be?

Time	Patrick	SpongeBob
Initial Amount	18	5
After 1 week	24	9
After 2 weeks	33	17

## 4 – Microwave Miracle

Patrick believes that fish that eat food exposed to microwaves will become smarter and would be able to swim through a maze faster. He decides to perform an experiment by placing fish food in a microwave for 20 seconds. He has the fish swim through a maze and records the time it takes for each one to make it to the end. He feeds the special food to 10 fish and gives regular food to 10 others. After 1 week, he has the fish swim through the maze again and records the times for each.

What was Patrick's hypothesis?

Which fish are in the control group?

What is the independent variable?

What is the dependent variable?

Look at the results in the charts.

What should Patrick's conclusion be?

Special Food Group (Time in minutes/seconds)

Fish	Before	After
1	1:06	1:00
2	1:54	1:20
3	2:04	1:57
4	2:15	2:20
5	1:27	1:20
6	1:45	1:40
7	1:00	1:15
8	1:28	1:26
9	1:09	1:00
10	2:00	1:43

Regular Food Group

Fish	Before	After
1	1:09	1:08
2	1:45	1:30
3	2:00	2:05
4	1:30	1:23
5	1:28	1:24
6	2:09	2:00
7	1:25	1:19
8	1:00	1:15
9	2:04	1:57
10	1:34	1:30