

Saturday, January 14<sup>th</sup>

# 7.5

**Scientific Method**  
**Bikini Bottom Experiments**

Name \_\_\_\_\_

The Bikini Bottom gang loves science class and wanted to do a little research. Read the description for each experiment and use your knowledge of the scientific method to answer the questions.

**(1) Flower Power** \*Complete sentences\*

SpongeBob loves to garden and wants to grow lots of pink flowers for his pal Sandy. He bought a special Flower Power fertilizer to see if will help plants produce more flowers. He plants two plants of the same size in separate containers with the same amount of potting soil. He places one plant in a sunny window and waters it every day with fertilized water. He places the other plant on a shelf in a closet and waters it with plain water every other day.

What did SpongeBob do wrong in this experiment? Explain.

What should SpongeBob do to test the effectiveness of Flower Power fertilizer? Write an experiment.

**(2) Super Snails**

Gary is not the smartest snail in Bikini Bottom and believes he can improve his brain power by eating Super Snail Snacks. In order to test this hypothesis, he recruits SpongeBob and several snail friends to help him with the experiment. The snails ate one snack with each meal every day for three weeks. SpongeBob created a test and gave it to the snails before they started eating the snacks as well as after three weeks.

Based on the data provided, do the Super Snail Snacks work? Explain your answer.

Test Results		
Snail	Before	After
Gary	64%	80%
Larry	78%	78%
Barry	82%	84%
Terry	72%	70%

### **(3) Bubble Time**

Patrick loves bubble gum and would like to be able to blow bigger bubbles than anyone else in Bikini Bottom. To prepare for the Bikini Bottom Big Bubble Contest, he bought five different brands of bubble gum and needs your help to find the brand that creates the biggest bubbles. Write an experiment to test the bubble power of the bubble gum brands and help Patrick win the contest.

# SUPER SCIENTISTS

Name \_\_\_\_\_

CODE:

A	☼
B	☼
C	☼
D	☼
E	☼
F	☼
G	☼
H	☼
I	☼
J	☼
K	☼
L	●
M	○
N	■
O	□
P	□
Q	□
R	□
S	▲
T	▼
U	◆
V	◇
W	◐
X	
Y	
Z	

1. ☼▲▼□□■□○☼□ \_\_\_\_\_  
Studies outer space, the solar system, and the objects in it
2. ☼☼□○☼☼☼☼● ☼■☼☼■☼☼□ \_\_\_\_\_  
Designs and builds body parts and devices
3. ☼☼□●□☼☼▲▼ \_\_\_\_\_  
Studies all forms of life
4. ■□□●□☼☼▲▼ \_\_\_\_\_  
Studies animal life
5. ☼☼□●□☼☼▲▼ \_\_\_\_\_  
Studies animals and the way they interact with their environment
6. □□■☼▼☼□●□☼☼▲▼ \_\_\_\_\_  
Studies birds
7. ☼☼○☼▼□●□☼☼▲▼ \_\_\_\_\_  
Studies blood and its diseases
8. ●☼□☼☼□□▼☼□☼▲▼ \_\_\_\_\_  
Studies butterflies and moths
9. ▼☼□■□○☼▲▼ \_\_\_\_\_  
Studies classification
10. □☼●☼□■▼□●□☼☼▲▼ \_\_\_\_\_  
Studies dinosaurs and fossils
11. ▲☼☼▲○□●□☼☼▲▼ \_\_\_\_\_  
Studies earthquakes
12. ☼☼☼○☼▲▼ \_\_\_\_\_  
Studies elements, atoms, and molecules
13. ☼☼☼▼☼□●□☼☼▲▼ \_\_\_\_\_  
Studies fish
14. ☼■▼□○□●□☼☼▲▼ \_\_\_\_\_  
Studies insects
15. ○☼○○☼●□☼☼▲▼ \_\_\_\_\_  
Studies mammals
16. ○☼☼□□☼☼□●□☼☼▲▼ \_\_\_\_\_  
Studies microscopic organisms
17. ○☼■☼□☼●□☼☼▲▼ \_\_\_\_\_  
Studies minerals
18. □☼|▲☼☼☼▲▼ \_\_\_\_\_  
Studies motion, forces, and energy to explain the way things work
19. □☼□☼▲☼▼□●□☼☼▲▼ \_\_\_\_\_  
Studies parasites
20. ○|☼□●□☼☼▲▼ \_\_\_\_\_  
Studies fungi

Fold along the line to use the code for the words on the back of this page.

21. \*□▼\*■\*▲▼ \_\_\_\_\_  
Studies plant life
22. \*\*□□\*▲\*\*\*▲▼ \_\_\_\_\_  
Studies processes that change and shape the Earth
23. \*\*□□\*▼□●□\*\*▲▼ \_\_\_\_\_  
Studies reptiles and amphibians
24. \*\*□●□\*\*▲▼ \_\_\_\_\_  
Studies rocks, minerals, and earth's land forms
25. \*◆\*\*□●□\*\*▲▼ \_\_\_\_\_  
Studies sound and its properties
26. ○\*▼\*□□□●□\*\*▲▼ \_\_\_\_\_  
Studies the atmosphere and weather
27. \*■◆\*□□■○\*■▼\*●\*▲▼ \_\_\_\_\_  
Studies the environment
28. ○\*□\*■\* \*\*□●□\*\*▲▼ \_\_\_\_\_  
Studies the life forms found in the ocean
29. □\*\*\*■□\*□\*□\*\*□ \_\_\_\_\_  
Studies the ocean
30. \*□\*\*\*□●□\*\*▲▼ \_\_\_\_\_  
Studies the remains of human life
31. ◆\*□□●□\*\*▲▼ \_\_\_\_\_  
Studies viruses
32. ◆□●\*\*\*■□●□\*\*▲▼ \_\_\_\_\_  
Studies volcanoes
33. \*■\*□□●□\*\*▲▼ \_\_\_\_\_  
Studies water and the water cycle
34. \*\*●● \*□●□\*\*▲▼ \_\_\_\_\_  
Studies the structure of cells to learn how they function and interact with chemical and physical factors