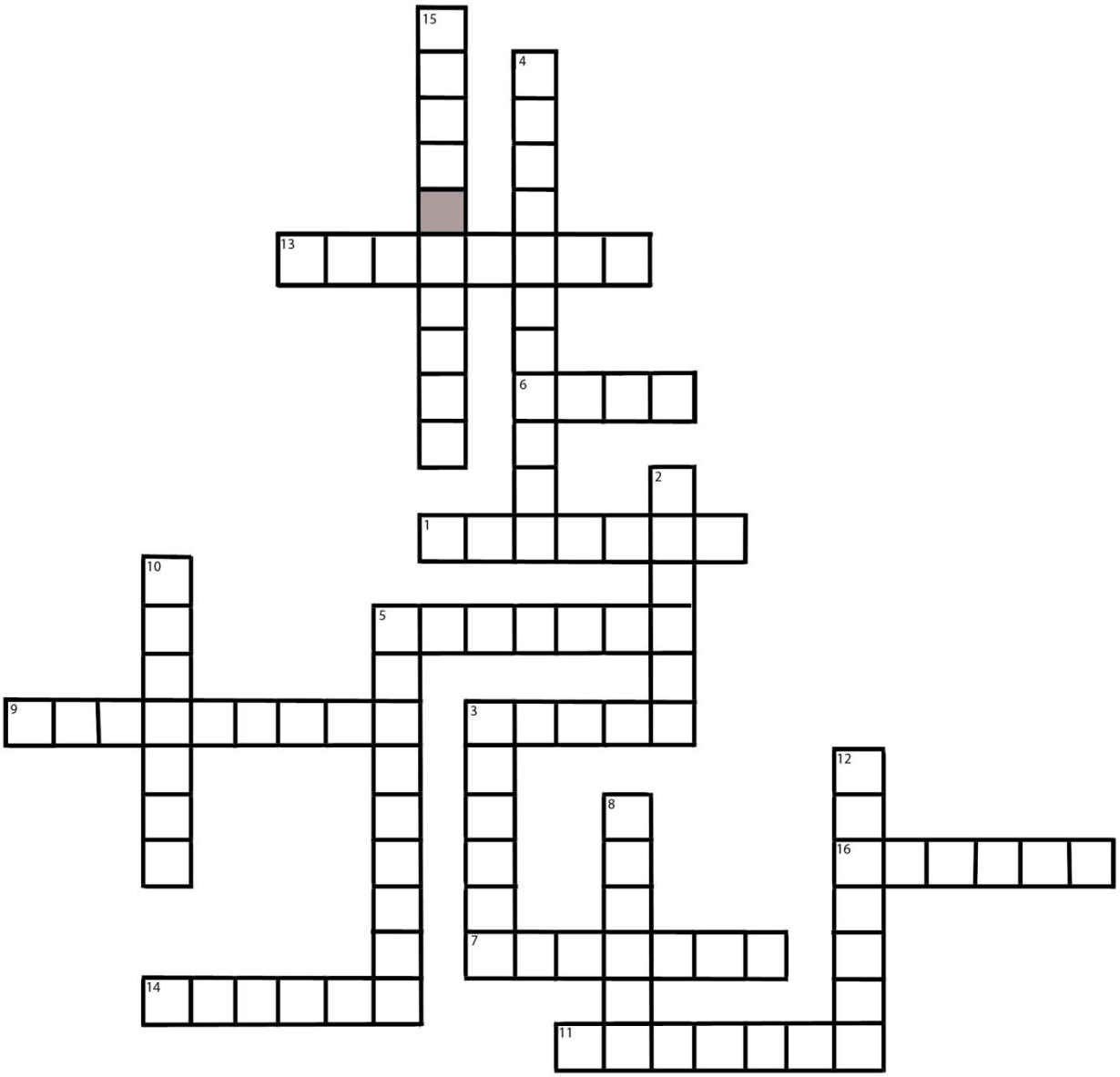
Water Quality Laboratory Puzzle

Use the words in word bank to help you!



Across:

1. Small things that can be import
3. Paying attention
5. A _____ person wonders why and how things work.
6. How we measure things
7. When you describe how something works or what it means.

9 A task that is not easy

11. The study of energy, light, and how things work
13. We grow colonies of these in petri dishes.
14. _____ keeps us from getting injured
16. Problem solving is done using the Scientific

Down:

2. A kind of glassware used in labs
3. The time yet to come
4. Air, water, rocks, and life that are around us
5. The study of molecules and atoms and how they react
8. Free from disease, in good condition
10. The study of life
12. These are small amounts of something that can be tested
15. Glassware for small amounts of a sample

BIOLOGY
Julie especially likes doing the biology tests. We need to know what microorganisms are in the wastewater so we can clean it.

CHALLENGE
Deborah, the lab supervisor, says she likes her work because there is always something new to learn and she likes the challenge.

HEALTH
Anna says she knows her work is important because she protects the health of the public and of our river.

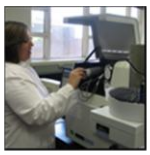
SAFETY
If you don't have safety in your lab, you don't have anything. John wears safety glasses, gloves, and lab coat to be safe.

DETAILS
One thing that all of our lab analysts agree on is that they have to pay attention to the details.

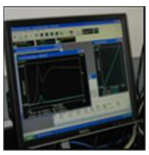
METHOD
Contessa says that lab work is fun because you are always solving problems. She uses the scientific method every day at work.

FOCUS
Leah says that it takes a lot of focus to work at the lab. People make decisions based on your results. Lab analysts have to focus.

ENVIRONMENT
Krisenda is proud of her work because she is protecting the environment.



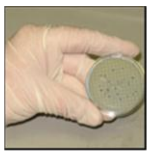
PHYSICS
Annette uses physics and wavelengths of light to find out what is in a sample. The results of the test are given in graph form.



MATH
Information about the samples is shown in graphs. You have to understand graphs and math to work in the lab.

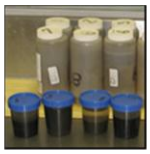
CURIOUS
Nico says lab analysts have to be curious. She likes figuring out how things work from start to finish and finding answers.

CHEMISTRY
Lab analysts use chemistry to find out what metals or salts or other chemicals are in the wastewater.

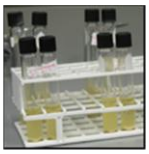


BACTERIA
Bacteria can help us by breaking down our waste. Some bacteria can cause disease. We grow colonies of bacteria in petri dishes.

FLASKS
Glassware is used in labs because it does not melt easily, it is transparent, and it stands up to chemical attack.

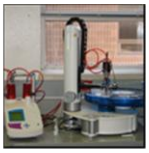


SAMPLES
Water samples are collected from many places. We test the water to find out what chemicals and microorganisms are in it.



TEST TUBES
Small amounts of a sample can be used in a test tube. That way one sample can have many tests done.

EXPLAIN
Lab analysts work with all kinds of people. They need to be able to explain technical information to make it understandable.



FUTURE
Program manager Janine loves her work because she is always planning for the future and learning about new technologies.