quality factors.
additional harmful water
wonder if I could detect
relationship made me
sea otter deaths. This cause-
family, is the cause of several
often spend time with my
Pinto Lake, a place where I
that blue-green algae from
since it has been discovered
of the Payaro River watershed
investigating the water quality
I became interested in

... My Interests

My Water Quality Book

by Simon
Drinking water is that it can

fact about nitrate in our

run-off. An interesting

fertilizer, and agricultural

of nitrate are; sewage.

the water. Other sources

dissolved oxygen (DO) in

decrease the amount of
decomposition and

promotes bacterial

plant growth and decay.

Excess nitrate increases

into the aquatic system.

animals release nitrate

exceptions of living

plants and animals and the
dead

The decomposition of dead

plants to build protein.

needed by all aquatic

Nitrate is a nutrient

Facts:

discovered some interesting

information. From this, I

guilty kit which provided

measurements, I bought a water

Curious about water quality

Researching information...
of vegetation (the more
DO there is), the amount
colder the water, the more
water temperature (the
based on many factors:
the water. This varies
the amount of oxygen in

4. Dissolved oxygen (DO) is
(acidic) to 14 (basic).
0 scale ranges from 0
which is neutral. The PH

3. The PH of clean water is 7,
run-off, pollution, and agricultural

excretions, industrial
from human and animal
levels. Phosphate comes
dissolved oxygen (DO)
activity, and decreased
plants, increased bacterial
lead to overgrowth of
levels of this nutrient can
metabolic reactions. High
fundamental element in
animal growth and is also a
needed for plant and

2. Phosphate is a nutrient
blood to carry oxygen.
affect the ability of our
drinking water. Water or other sources of heated water from pollution, the discharge of disease, thermal wastes, and parasites, and of organisms to toxic plants, and the sensitivity photosynthesis by aquatic water, the rate of dissolved oxygen in the aquatic systems. The presence of coliform threatens the balance of temperature changes that example can cause industrial operations, for temperature is very important to water plants, the more oxygen in the water, etc.
Research question: Is my RO testable?

My research question is: What is the bacteria level at:

- School
- Pinto Lake
- Pichered
- Corralitos Creek
- Las Pinaro River

Since I will be using tools to collect and measure the locations, yes, my research question is testable.
Because my type of inquiry is an investigation, I will need to collect data at all sites.

To answer my research question, I will collect data in a school, Pinto Lake, B. Fierted, d. Corallito Creek and e. Pajarro River.

Of the three types of inquiry:
(a) observation
(b) investigation
(c) experiment

Type of Inquiry: Data collection...
Recording my data...

...I need these tools: I will realize that the tools I need are:

A datasheet
Rubber boots
Thermometer
Water quality kit

Pencil

I designed my own datasheet to write down (record) my water quality measurements.
Bacteria: negative (red); positive (yellow)
Temperature: degrees Celsius
DO: 0 ppm (low) - 8 ppm (high)
pH: 6-8 (acidic); 7-10 (basic)
Phosphate: 1 ppm (low) - 4 ppm (high)
Nitrate: 5 ppm (low) - 40 ppm (high)

Table 2. All Water Quality Factors

<table>
<thead>
<tr>
<th>Bacteria</th>
<th>Temp</th>
<th>pH</th>
<th>DO</th>
<th>Phosphate</th>
<th>Nitrate</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pos</td>
<td>70</td>
<td>7</td>
<td>8</td>
<td>2</td>
<td>G</td>
<td>School</td>
</tr>
<tr>
<td>Pos</td>
<td>85</td>
<td>6</td>
<td>8</td>
<td>2</td>
<td>G</td>
<td>School</td>
</tr>
<tr>
<td>Pos</td>
<td>65</td>
<td>7</td>
<td>7</td>
<td>3</td>
<td>G</td>
<td>Filleted</td>
</tr>
<tr>
<td>Pos</td>
<td>55</td>
<td>7</td>
<td>7</td>
<td>3</td>
<td>G</td>
<td>Filleted</td>
</tr>
</tbody>
</table>

Table 1. Water Level

<table>
<thead>
<tr>
<th>Location</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paterno River</td>
<td>Pos</td>
</tr>
<tr>
<td>Corralitos Creek</td>
<td>Pos</td>
</tr>
<tr>
<td>Pinto Lake</td>
<td>Neg</td>
</tr>
<tr>
<td>Filleted</td>
<td>Pos</td>
</tr>
<tr>
<td>School</td>
<td></td>
</tr>
</tbody>
</table>

This:
Our class dataset looks like...
My dataset looks like...

...this...
We think from animal and contaminated with bacteria and fungi on the fountain. The old and kids' slippers are in the school's piles.

Why?
possible explanation as to

(a) My Interpretation of the data

Data Analysis

My graph for Table 1 looks like this:
Collaborate with scientists on another study

Compare your results with other scientists

Answer questions

Report your findings

Consult with Melissa Miller

Melissa Miller said that the school's water tested positive for bacteria.

and other deaths.

effect link of blue-green algae with her team, the cause of DVM, who discovered (along with Melissa Miller)

and waste is polluted with animal carcasses.

to Pinto Lake and Pinto Lake are because they are connected.

and disgusted. The other sites because the paper might be the

Present findings to the community
Consult with Melissa Miller DVM, who discovered (along with her team), the cause-effect link of blue-green algae and sea otter deaths.

Melissa Miller said that the school’s water tested positive for bacteria because the pipes might be old and rusty. The other sites are because they are connected to pinto lake and pinto lake is polluted with animal carcasses and waste.

Present findings to the community

Report your findings
Answer questions
Compare your results with other scientists
Collaborate with scientists on another study
and pesticides.

- Support organic
- Trash, and recycle.
- Don't litter, pick up
- Clean up Pinto Lake!

Watershed: How we can all protect our

1.  
2.  
3.  
4.  

Thoughts and feelings about doing science are...

My helpful and cooperative.

I thought that Melissa Miller was very helpful and cooperative. I had fun because I enjoyed this experience. I want to do this again. I think helpful and cooperative. I had fun because I enjoyed this experience. I want to do this again.