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

My Interests...
drinking water is that it can be nutrient in our
fact about nitrate in runoff. An interesting
fertilizer, and agricultural
of nitrate are sewage.
the water. Other sources in dissolved oxygen (DO) in
decreases 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
death decomposition of dead
plants to build protein.
needed by all aquatic

Nitrate is a nutrient

Facts:
discovered some interesting
information. From this, I
quality 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).

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

2. Phosphates are a nutrient
blood to carry oxygen.
affect the ability of our

exceptions, industrial
levels. Phosphates come

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

1. The pH of clean water is 7.
run-off.

0
scale ranges from 0
heated water from pollution, the discharge of
Thermal diseases, parasites, and
wastes, parasites, and
of organisms to toxic
plants, and the sensitivity
photosynthesis by aquatic
water, the rate of
dissolved oxygen in the
affects the amount of
quality. Temperature
very important to water
Water Temperature is
the water), etc.
plants, the more oxygen in

Drinking water: water or other sources of
should not be found in well
or fecal contamination. It
bacteria indicates sewage
6. The presence of coliform
Aquatic systems. Threaten the balance of
temperature changes that
eexample, can cause
industrial operations, for


question is testable.
Your locations, yes, my research level at these collect and measure the.
Since I will be using tools to

Is my RQ testable?

Research question: What is the level at:
E. Pasarero River
D. Corrales Creek
C. Pinto Lake
B. Filtreed
A. School

My research question is: What
... Type of Inquiry...
I designed my own data sheet to record my data... I will realize that the tools I need are:

- A data sheet
- Rubber boots
- Thermometer
- Water quality kit

Tools I need...
### Table 1: Water Quality Level

<table>
<thead>
<tr>
<th></th>
<th>H0 River</th>
<th>Contaminated Creek</th>
<th>Pinto Lake</th>
<th>Filleted School</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Phosphate</td>
<td>7 ppm (low)</td>
<td>7 ppm (normal)</td>
<td>7 ppm (high)</td>
<td>7 ppm (low)</td>
</tr>
<tr>
<td>Nitrate</td>
<td>5 ppm (low)</td>
<td>4 ppm (high)</td>
<td>4 ppm (high)</td>
<td>4 ppm (high)</td>
</tr>
<tr>
<td>Bacteria</td>
<td>positive (yellow)</td>
<td>negative</td>
<td>positive</td>
<td>positive</td>
</tr>
</tbody>
</table>

### Table 2: All Water Quality Factors

<table>
<thead>
<tr>
<th></th>
<th>H0 River</th>
<th>Contaminated Creek</th>
<th>Pinto Lake</th>
<th>Filleted School</th>
</tr>
</thead>
<tbody>
<tr>
<td>DO</td>
<td>8 ppm (low)</td>
<td>8 ppm (normal)</td>
<td>8 ppm (high)</td>
<td>8 ppm (low)</td>
</tr>
<tr>
<td>Nitrate</td>
<td>5 ppm (low)</td>
<td>4 ppm (high)</td>
<td>4 ppm (high)</td>
<td>4 ppm (high)</td>
</tr>
</tbody>
</table>

### This:
Our class dataset looks like

### This:
My dataset looks like
My graph for Table 1 looks like this:

Data Analysis

(a) My interpretation of the data is the highest nitrate level is at School and Pajaro Rivers.

(b) Possible explanation as to why?

The school's water pipes are old and dirty, N.S. Lisa collected a water sample at the water treatment plant where the Pajaro River is nearby.
The evidence suggests that...
Collaborate with scientists on another study

Compare your results with other scientists

Answer questions

Report your findings

Consult with Melissa Miller

and see other deaths.

Effect link of blue-green algal

with her team, the cause-

DW, who discovered (along

community

Present findings to the
and pesticides.
non-toxic insecticides
When gardening, use
Farmers.
Support organic
trash, and recycle.
Don't litter, pick up
Clean up Pinto Lake!

watershed:
How we can all protect our

My thoughts and feelings

about doing science are...

things have gone done
I think that it's been

new for me. I also like
it because we learned

get it was something

fun because we got to do