Lead Contamination in Drinking Water: Flint, Michigan Incident

Assignment: Everyone. Find one journal article relating to lead contamination. Look for journal articles on either the sources of lead in our environment, and/or the health impact of lead.

Team 1
Flint Michigan lead contamination incident.
When did it occur?
What caused it?
What is the current status of the problem in Flint?

Team 2
Lead levels in humans Typical vs Flint Michigan
Include here levels in drinking water typically and abnormal.
Then levels detected in humans. Typical and toxic levels

Team 3
Other sources of lead contamination and other locations where lead in drinking water is a concern.
What was the effect of lead in gasoline? Is there still lead in any fuels?

Teams 4 and 5
These 2 teams will focus on the health affects and will decide later on two different areas of focus. This is a broad topic with much to say about it.

Team 4
Physiology: What are the health affects of lead contamination in humans.

Team 5
Physiology: Treatment of individuals with toxic lead levels.
Are the health affects reversible? What are the various treatment options?

Team 6
What about San Antonio?
Are there any buildings where lead has been shown to be a concern?
What about our drinking water in general?
Assignment: Everyone. Find one journal article regarding affects of water quality on health.

1311 006  Science Festival mini teams

Reporter       Pwr Pt Administrator       Spokesperson / Team

GENERAL TOPIC: Water Quality: What affects it and what can we do about it?

Team 1        Water Contamination

Meds disposal

Recent changes in stream protection act regarding less regulation on discharge of industrial waste into streams and rivers.

Team 2 and 3   10 most harmful contaminants in the world's drinking water

Team 2        5 contaminants that affect drinking water quality locally, nationally and internationally.

Team 3        5 contaminants that affect drinking water quality locally, nationally and internationally.

Team 4        Affect of water pH on health

Team 5        San Antonio Water Quality

Team 6        Comparisons of the the quality of possible drinking water choices.

Tap           Bottled       Filtered       Reverse Osmosis       other?
Assignment: Everyone. Photo at least one label with sugar in the ingredients by some other name than simply sugar.

Find one journal article relating to sugar’s effect on our health.

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New food label indicated grams of sugar

Various names for sugars on food labels.

Amounts.
Assignment: Everyone. Find one journal article relating to fat and its effect on our health.

1307 004 Science Festival mini teams

Team 1 What are fatty acids

Team 2 Where are they in our diet?

Compare various oils and their fatty acid content:

Canola, sunflower, olive, coconut,

Also, what are mono and diglycerides? Are they natural or man made? Any concerns?

Team 3 Dietary Fat Recommendations

Trans fat saturated vs unsaturated

WHO

FDA

Others

Team 4 Trans fats

Sources in our diet. Metabolism of trans fats. Health concerns regarding trans fats

Effect of cooking and hydrogenation on Trans fat formation.

Team 5 Saturated vs Unsaturated What about coconut oil

Team 6 Omega 3 Fatty acids Why we need them?

Where we get them? Recommended amounts.