

Chemistry 2202 “Healthy Living” Project

Chemical Analysis of the Cigarette Poster - “What’s Your Poison?”

Object: For your assigned chemical from the “What’s Your Poison” cigarette poster, find out what is so toxic about that particular cigarette chemical, and make up a mini-poster / info sheet on that chemical alone.

What to do:

1. Access the internet, your smartphone (if allowed by your school/teacher) or other sources of information to find out about one of the chemicals in cigarettes, found on the poster (flipside).
2. For your chemical, write down notes on:
 - the chemical formula of the substance;
 - the chemical structure of the substance (get help from your teacher if a "ball and stick picture" is shown for the substance so a clear meaning of the structure is understood);
 - why exactly the substance is considered toxic (i.e. What are the chemical's specific toxic effects... Does it cause cancer? What specific type of cancer? Does it cause breathing problems? Is it environmentally unfriendly? If so, in what way?);
 - other places in the ‘real world’ this chemical is found besides cigarettes (if anywhere).

IMPORTANT: Write down the exact website addresses / sources of your information; your sources will be checked. Use more than one source of information.

3. Design a poster based upon the information above on a legal sheet of paper (i.e. the long, 8.5"x14" exam-style paper). Note: Whatever you put on the poster should be clearly read from arm’s length... too much information or “information overload” is pointless if it cannot be read by someone standing arm's length away as they read the poster casually.
4. Make your poster! This will be put on display, so do your best job to present the information. Also add colour AND images to your poster, as text alone will not be appealing to someone passing by. IMPORTANT: On the **back of the poster**, write all of your “**Information references**” along with **your name**.

Due Date: _____

Wish you could quit smoking or have a friend that needs some tips on how to quit?

Looking for more info geared at how the tobacco industry has made you - teenagers - their target? The Alliance for Control of Tobacco in Newfoundland and Labrador (ACTNL) has your back:

Check out: **www.actnl.com**

*... it gives the straight-up truth about smoking without all of the hype, some real help on how to quit, and some great news on how **it's never too late to reclaim good health if you do quit.***

Wanna TRICK YOURSELF OUT? Go to either:

www.trickyoursselfout.ca

or on facebook:

www.facebook.com/ACTNL



This "Trick Yourself Out" app will use your own pic and show you how smoking will change how you look after 10 years of smoking. Before you light up, you've got to try this app!

What's Your Poison?

When you smoke you inhale up to 4000 chemicals including these poisons:

Acetone
(Paint stripper)

Mercury

Lead

Benzene

Dimethylnitrosamine

Nicotine

Cadmium
(Used in car batteries)

Carbon monoxide
(Poisonous gas in car exhausts)

Benzopyrene

Vinyl Chloride
(Makes PVC)

Hydrogen Cyanide
(Poison used in gas chambers)

4-Aminobiphenyl

Urethane

Toluene
(Industrial solvent)

Arsenic
(White ant poison)

Dibenzacridine

Phenol

Formaldehyde

DDT (Insecticide)

It's enough
to make
you sick.
Very sick.

