

Communication Questions

Shalini Sahi

1. What makes the hot and spicy peppers burn your tongue?
2. Are there any carbon monoxide detectors?
3. How does disappearing ink work? Or those white markers? (when you colour over, you can see the message!)
4. how do smoke detectors work?
5. How do those singing birthday candles work?
6. how does bleach work?
7. when baking why should you put butter, oil or something non stick able underneath? How does it work?
8. how come when you drink milk to fast, you feel like throwing up?
9. how do those oxypads work? to get rid of pimples...
10. how does hair shining cream work?

James Zhou

1. If water is just hydrogen and oxygen, why can't we just synthesize it?
2. What kind of explosive power would reacting 1kg of pure Cesium in 1kg of pure Fluorine yield?
3. How compact fluorescent light bulbs differ in mechanism than LED's and incandescent lightbulbs.
4. Can non-carbon (silicon, for example) based organisms exist in other worlds?
5. Since cocaine (C₁₇H₂₁NO₄) is just an organic compound, why can we not just fully synthesize it instead of extracting it from coca leaves?

Rujing Kuang

1. Why doesn't tape stick to it self permanently in the roll?
2. Why are recycled materials only 40% recycled?
3. Does clay undergo chemical change when they are fired in the kiln?
4. Why can't you cook egg with milk?
5. How was synthetic leather made?

Victoria Song

1. How tattoos/tattoo removers work.
2. How nicotine works.
3. How hair colouring works.
4. How instant film works.
5. How mirages work.

Russell Burgess

1. How can a material be only semi-permeable?
2. Are positrons and anti-protons actual particles or Star Trek creations and if real what do they do?
3. What is Plasma?
4. Do materials like wood and cloth have a liquid/gas state?
5. Why does water stay liquid below zero if 'supercooled' ?

Jill Messier

1. Why does window cleaner contain ammonia?
2. What is the use of fluoride in toothpaste?
3. Why does bleach make white spots on some fabrics/materials and not on others?
4. Why don't citrus fruits dissolve themselves if their juices are so acidic?
5. Why does the acetaminophen in Tylenol and Advil relieve pain and headaches?

Kai Ip

1. How does hair coloring work? Like what sets is apart from those sprays that wash out and permanent dyeing?
2. Artificial Tanning: How do the tanning sprays work? Like what chemicals are in it that cause the skin to change colours?
3. How do mood rings work?!
4. How come tattoos don't come out?
5. I am presuming that in batteries, there are different chemicals that produce the electricity. However, what chemicals are different between rechargeable and non-rechargeable batteries?

Jean Yen

1. How does a hydrogen car work?
2. How does make-up remover work?
3. What is the chemical composition for plastic? (Like a plastic water-bottle, nalgene for ex.) and why are there different recycling symbols on them? Do the different symbols have anything to do with a change in chemical composition of the plastic?
4. Are styling products bases or acids? or both? (especially mousse)
5. What is acetone and aspartame? Why are they harmful to our nails and inner organs. (Acetone is in nail-polish, or nail-polish remover, and aspartame is in gum, or Coca-Cola.)

Eric Koch

1. How do glow-sticks work?
2. How does hair dye work?
3. What makes super glue stronger than regular glue?
4. How do scratch and sniff stickers work?
5. Why does mixing mentos and diet coke produce an enormous fountain of coke?