Parts Per Million

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Definitions:(copy these down- use 2 lines for each)

Solution:

A mixture that is so well mixed the particles (solute) are evenly distributed, or dissolved into the liquid (solvent).

Concentration:

The amount of substance found in a given amount of a solution or mixture. Often written in "parts per…." (parts per hundred, parts per million, etc)

Parts Per Million

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Data:

(tape in handout)

Use colored pencils to match colors in the tray.

CUP #1: 10% red dye (percent)

That means 10 parts per hundred

100 parts per thousand

1000 pp ten thousand

10,000 parts per million (ppm)

CUP #2: 10% X 0.1 =

1% or….

1,000 ppm

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DISCUSSION- copy and complete

1. You can tell the _____ from how dark the color is.
2. If you add more solvent (water) the concentration becomes_____ or ___.
3. The solvent was _____ . The solute was _____. Together they made a ____.
4. When you add more water you are _____ing the solution
5. The cup that first appeared colorless was # ___ . That cup DID/DIDN'T still have food coloring in it.
6. Its concentration was ___ % or ___ ppm. If the solute was poison, would it be safe to drink from that cup? Explain.