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September 23, 2014

Activity 3 Analysis

1. Cup 2 is obviously more diluted than cup 1. Cup 2 is 10% dye and cup 1 is 1% dye.
2. The concentration of cup 2 is one part in 100.
3. Cup 6
4. Cup 7 is the cup where it appeared to be colorless. The concentration is one part in 10,000,000
5. Some student’s threshold for sight may be worse or better than the other student’s threshold for sight.
6. Yes. There is obviously food coloring in the cup. We started off with a cup with 10% dye in it and added that to the next. We continuously did that until we made it to cup 9. There is one part in 10,000,000,000 percent food coloring in it.
7. I would do an experiment with a substance that is able to detect food coloring or any other chemicals in food coloring. Last year we had a substance that turned yellow when it detected carbon dioxide.
8. A million is a very big number and if you had a million dollars you would be rich.
9. The concentration in cup 6 would be 5 parts in 1,000,0000.