Sniffing Cat Food & Stinky Cheese HW

NO TEXTBOOK WORK TODAY!! Just answer the following questions in your notebook:

- 1. List the names of eight to ten substances at home that fit into the five smell categories we learned about today (minty, fishy, sweet, putrid, and camphor).
- 2. Predict the smell of the following molecules. Explain your reasoning.

Methyl octanoate monoethylamine ethyl acetate $C_9H_{18}O_2$ C_2H_7N $C_4H_8O_2$

- 3. What do you think 1,5 pentanedithiol ($C_5H_{12}S_2$) would smell like? How confident of your answer are you? Explain why.
- 4. Let's say you smelled 30 vials, all with substances that contain two oxygen atoms in their molecular formulas. Twenty-nine of them smell sweet and one smells really putrid. Can you still claim a connection between molecular formula and smell? Explain your reasoning.