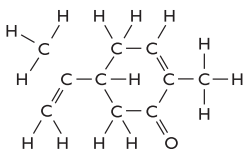
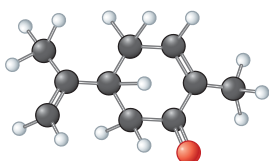
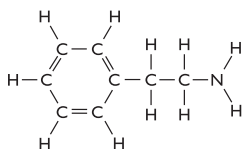
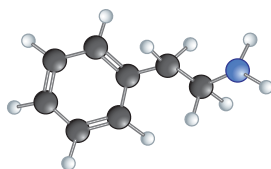


Molecule A



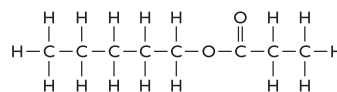
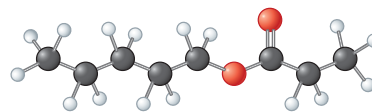
L-carvone, $C_{10}H_{14}O$

Molecule B



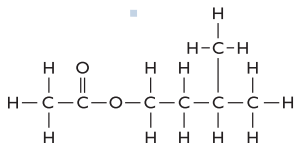
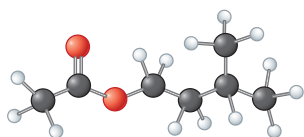
phenylethylamine, $C_8H_{11}N$

Molecule C



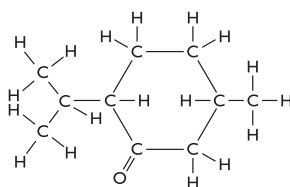
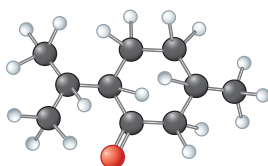
pentyl propionate, $C_8H_{16}O_2$

Molecule D



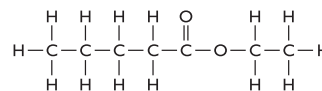
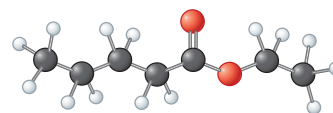
isopentyl acetate, $C_7H_{14}O_2$

Molecule E



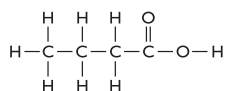
menthone, $C_{10}H_{18}O$

Molecule F



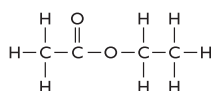
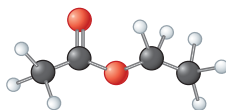
ethyl pentanoate, $C_7H_{14}O_2$

Molecule G



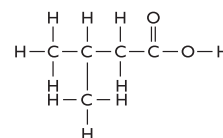
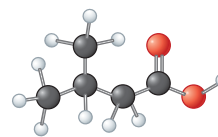
butyric acid, $C_4H_8O_2$

Molecule H



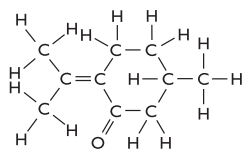
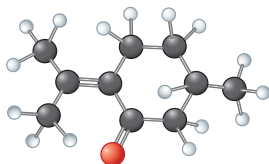
ethyl acetate, $C_4H_8O_2$

Molecule I



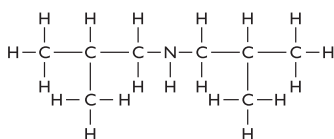
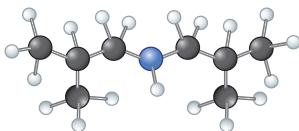
isopentanoic acid, $C_5H_{10}O_2$

Molecule J



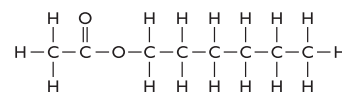
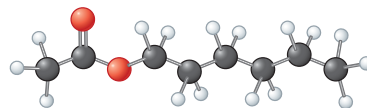
pulegone, $C_{10}H_{16}O$

Molecule K



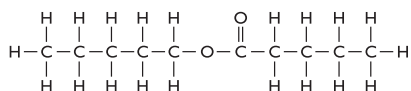
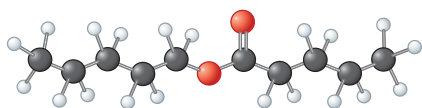
diisobutylamine, $C_8H_{19}N$

Molecule L



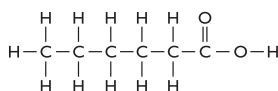
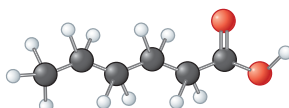
hexyl acetate, $C_8H_{16}O_2$

Molecule M



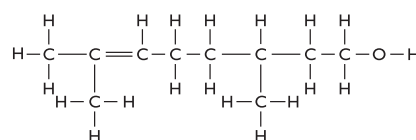
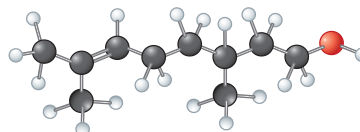
pentyl pentanoate, $C_{10}H_{20}O_2$

Molecule N



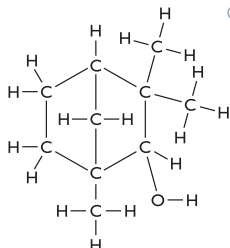
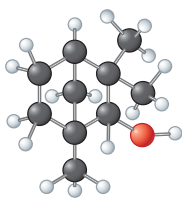
hexanoic acid, $C_6H_{12}O_2$

Molecule O



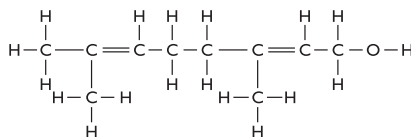
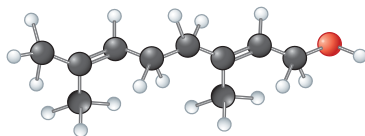
citronellol, $C_{10}H_{20}O$

Molecule P



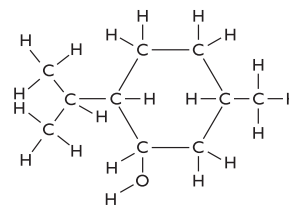
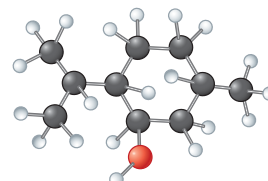
fenchol, $C_{10}H_{18}O$

Molecule Q



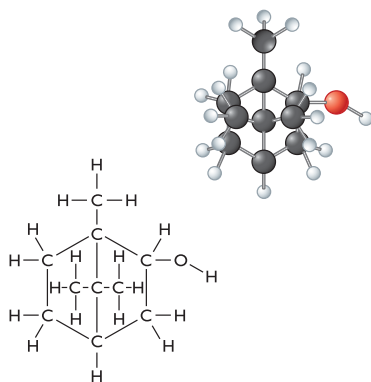
geraniol, $C_{10}H_{18}O$

Molecule R



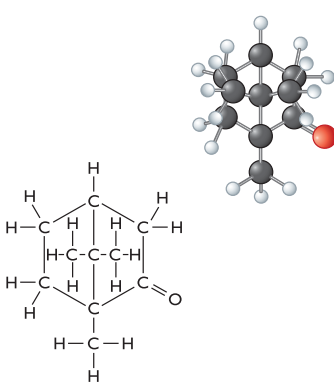
menthol, $C_{10}H_{20}O$

Molecule S



borneol, $C_{10}H_{18}O$

Molecule T



camphor, $C_{10}H_{16}O$

MOLECULE

Card sort activity

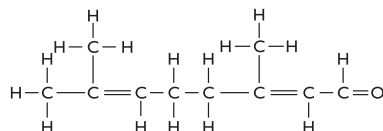
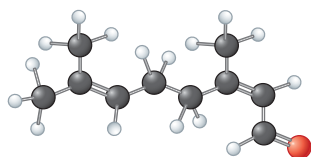
Sort the compounds into categories:
sweet, minty, camphor, putrid, and fishy.

1. What features did you use for sorting?
2. Which cards are you not 100% sure about?
3. Which group did you put these cards into?
Card M Card S Card R
4. Which compounds did you sort mostly by looking at shape?
5. Sort the cards that you are unsure about by shape. Where does each one end up?
6. What functional groups are present in the camphor-smelling compounds? In the minty-smelling compounds?
7. To decide which smell category a compound belongs in, what chemical characteristics would you look for first? Second?

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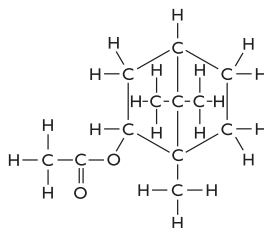
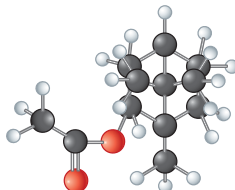
40079

Molecule U



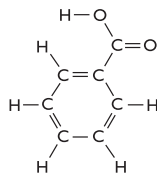
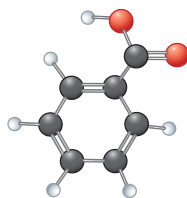
citral, $C_{10}H_{16}O$

Molecule V



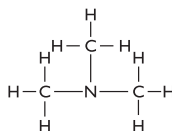
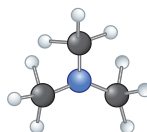
bornyl acetate, $C_{12}H_{20}O_2$

Molecule W



benzoic acid, $C_7H_6O_2$

Molecule X



trimethylamine, C_3H_9N