

Hydrocarbon Model Activity!

Name:

Date:

Block:

You are given six carbon atoms and 5 bonds.

1. Together with your partner, create as many different hydrocarbon molecules as possible using all atoms and all bonds.
2. Write the name and formula of each structure.
3. For each structure, draw the structural formula and the carbon skeleton formula.

Name and Formula	Structural Formula	Carbon Skeleton
hexane C_6H_{14}		
2-methylpentane C_6H_{14}		
3-methylpentane C_6H_{14}		
2,3-dimethylbutane C_6H_{14}		
2,2-dimethylbutane C_6H_{14}		

How many **different** molecules (i.e. different names) did you create?

There are 5!