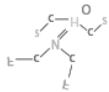


Name _____ Period _____ Date _____



Organic Models

STEM Sims

Lesson 1: Life Models

Organic chemistry has been called the chemistry of life since living organisms consist of and rely on so many organic molecules. The vast number of carbon-based molecules result from the combination of carbon with many other atoms. Your challenge is to identify various organic molecules, functional groups, and basic organic reactions. Get ready, get set, go organic!

Doing the Science

Part I: Naming Basic Hydrocarbons

1. Open the Organic Models simulation.
2. Select the practice or test mode based on your instructor's directions.
3. If not already selected, choose the hydrocarbons button at the bottom of the screen.
4. View the molecule on the left side of the screen. Then select the molecule's correct name from the list on the right side of the screen.
5. Select the continue button at the bottom of the screen to view the next molecule. Observe and name a total of 5 molecules in this section.
6. If using the practice mode, record your score in Table 1 below.

Table 1. Practice Mode Scores

Part	Score (out of 5)
Hydrocarbons	
Functional Groups I	
Functional Groups II	
Organic Reactions	

Part II: Categorizing Functional Groups

1. If not already selected, choose the "Functional Groups I" button at the bottom of the screen.
2. View the molecule on the left side of the screen. Then select the molecule's correct functional group from the list on the right side of the screen.
3. Select the continue button at the bottom of the screen to view the next molecule. Observe and name a total of 5 functional groups in this section.
4. If using the practice mode, record your score in Table 1.

Part III: Naming Molecule with Functional Groups

1. If not already selected, choose the "Functional Groups II" button at the bottom of the screen.
2. View the molecule on the left side of the screen. Then select the molecule's correct functional group from the list on the right side of the screen.

