|  |  |
| --- | --- |
| C2H6 | CH4 |
| C3H8 | C4H10 |
| C5H12 | C­6H14 |
| C7H16 | C8H18 |
| C9H20 | C10H22 |
| -OH | -O- |
| -C-H  O | -C-OH  O |
| -C-O-  O | -N- |
| C2H6 | CH4 |
| C3H8 | C4H10 |
| -C-  O | -Halide  (F, Cl, Br, I) |
| C2H6 | CH4 |

Directions:

Students will work in groups of 2-3. Students will create organic functional groups using the flash cards. Each student will start with 5 cards. They will draw cards and create organic compounds that contain functional groups. The students will have to draw the organic compound and name it in order to get points. Once they do this, they may return the cards they used to the pile. Students will continue to make organic compounds until the first person scores 10 points. Points are based on the following.

Point system:

Halides, alcohols……………..….1 point

Ether, ketone…………………..….2 points

Aldehyde, organic acid…….….3 points

Ester, amine………………………..4 points

Organic Functional Group Game

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions:

Each student should get 5 cards. Some cards contain functional groups, other cards contain alkanes. You are too use pages 6 and 7 of your Chemistry Reference Tables to help you create organic molecules that contain functional groups.

Procedure:

1. Start with the youngest student.
2. This student may go first to create their compound.
3. You must draw and name the organic compound to receive points.
4. You may only draw ONE compound per turn.
5. Once you create your organic molecule you must return the cards to the pile
6. Play continues to the right.

Points are awarded based on what you make:

Halides, alcohols……………..….1 point

Ether, ketone…………………..….2 points

Aldehyde, organic acid…….….3 points

Ester, amine………………………..4 points

The first player to 10 points wins the game.

|  |  |
| --- | --- |
| Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ | Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ |
| Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ | Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ |
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| Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ | Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Score:\_\_\_\_ |

Total Score: \_\_\_\_\_\_\_\_\_\_\_