

Lipids Review Worksheet

Name: _____

1. What elements do lipids contain?
2. How can you tell a lipid from a carbohydrate from its molecular formula?
3. Draw a molecule of glycerol and circle the $-OH$ (hydroxyl) groups. Give the molecular formula for glycerol.
4. List three differences between saturated fatty acids and unsaturated fatty acids.
5. How are triglycerides and phospholipids similar? Different?
6. Name two examples of steroids.
7. Complete the equations: _____ fatty acids + _____ glycerol \rightarrow 1 _____ + 3 _____
8. Sketch a hydrocarbon molecule that is a straight chain, containing five carbon atoms and twelve hydrogen atoms, molecular formula C_5H_{12} .
9. Now sketch a shorter hydrocarbon chain, with only four carbon atoms. What is the molecular formula of this molecule?
10. Sketch another five-carbon hydrocarbon, but this time include one double bond. What is the molecular formula of this molecule?

11. Fill in this concept map.

12. Review the structures and functions of lipids by completing the following crossword puzzle. You may not know every term, but do your best!