

1. Answer the following questions.

<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">Monomer</div> <div style="text-align: center;"> \rightleftarrows </div> <div style="border: 1px solid black; padding: 2px 10px;">Polymer</div> </div> <hr style="width: 80%; margin: 10px auto;"/> </div>	<p>A. Connect these two boxes by circling the correct arrow. Write beneath the line how these two are connected.</p>
<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Glucose</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Fructose</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Fatty acid</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Amino acid</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Nucleotide</div> </div> <hr style="width: 80%; margin: 10px auto;"/> </div>	<p>B. How do the circles to the left relate to the boxes above? Use the same types of arrows. Start with the circles and draw right up to the boxes above, where it is appropriate. Then explain your thoughts in the space beneath the line.</p>
<div style="text-align: center;"> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">DNA</div> <div style="border: 1px solid black; padding: 2px 10px;">Protein</div> <div style="border: 1px solid black; padding: 2px 10px;">Lipids</div> <div style="border: 1px solid black; padding: 2px 10px;">RNA</div> <div style="border: 1px solid black; padding: 2px 10px;">Starch</div> <div style="border: 1px solid black; padding: 2px 10px;">Cellulose</div> </div> <hr style="width: 80%; margin: 10px auto;"/> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Cell wall</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Human hair</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Cellular membrane</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Ribosome</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Cellular motors</div> <div style="border: 1px solid black; border-radius: 50%; padding: 5px 15px;">Chromosome</div> </div> </div>	<p>C. How are these boxes to the left related to the cellular structures listed in the circles?</p> <p>Draw arrows between the boxes and the circles and explain your thoughts on their relationships in the space at the bottom of the page.</p>

2. Some people say life is fundamentally all structured the same, while others say there is great diversity even in very small molecules. What do you think and why?