

# VitaYeast: sample schedule

Day 1	Day 2	Day 3	Day 4	Day 5
Presentations				
<ul style="list-style-type: none"> <li>• <i>What is Synthetic Biology</i></li> <li>• <i>VitaYeast</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Polymers of the cell</i></li> <li>• <i>Metabolic Engineering</i></li> <li>• <i>Nitrogen from Proteins</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Golden Rice</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>GMO debate</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Real world applications of this technology</i></li> </ul>
Labs				
<ul style="list-style-type: none"> <li>• <i>Orientation</i></li> <li>• <i>Safety training</i></li> <li>• <i>Lab math</i></li> <li>• <i>Streaking cells to YPD</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Pouring dough plates</i></li> <li>• <i>Making TLC slides</i></li> <li>• <i>Liquid overnights of yeast</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Large yeast cultures</i></li> <li>• <i>Yeast extracts for TLC</i></li> <li>• <i>Re-streaking cells on YPD</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Baking bread</i></li> <li>• <i>TLC</i></li> <li>• <i>Serial dilutions</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Data collection</i></li> <li>• <i>Data analysis</i></li> <li>• <i>Graphing and sharing data</i></li> <li>• <i>Lab clean-up</i></li> </ul>
Additional Activities				
<ul style="list-style-type: none"> <li>• <i>Build glucose</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Lab notebooks</i></li> <li>• <i>Data review</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Design a logo for VitaYeast Bread Co.</i></li> <li>• <i>Mutations and Evolution</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Brainstorming synthetic living systems</i></li> </ul>	<ul style="list-style-type: none"> <li>• <i>Play "Strain"</i></li> </ul>

Many of these presentations and additional activities are available from [BioBuilder.org](http://BioBuilder.org).

Teachers can request reagents and materials directly via the Educational Foundation's website.