Name:	Date:	Section:
Molecule Mania Ac	tivity: Biological Macı	romolecules
Organizing Life's Molecula	r Diversity	
Phase 1: ENGAGE (5 minutes	)	
Getting Started:		
Open peebedu.com and navigate to	Biological Molecule Structure Org	anizer
Examine the molecular structures as	vailable.	
Initial Observations:		
Number of molecule types:		
Visual differences noted:		

## **Hypothesis:**

What structural features best distinguish the four macromolecule classes?

Phase 2: EXPLORE (20 minutes)

Part A: Carbohydrate Classification

Identify and sort all carbohydrates.

Pattern Recognition (identify 3):	
1	
2	
Part B: Lipid Diversity	
Categorize lipid molecules by type.	
Lipid Classification:	
Function Steroid	
Primary	
Sugar	
Glucose Enzyme	
Monomers	
1. Clinical Connection:	
Lactose intolerance involves:	
Molecule type:	

Structural Analysis:

Structural issue:
1. Model Evaluation:
This tool best demonstrates:
Evidence:
Critical Thinking:
Why did life evolve to use these four molecule classes and not others?
Investigate non-standard biomolecules:
Modified amino acids
Unusual lipids
Synthetic nucleotides
Novel carbohydrates
Research proposal: