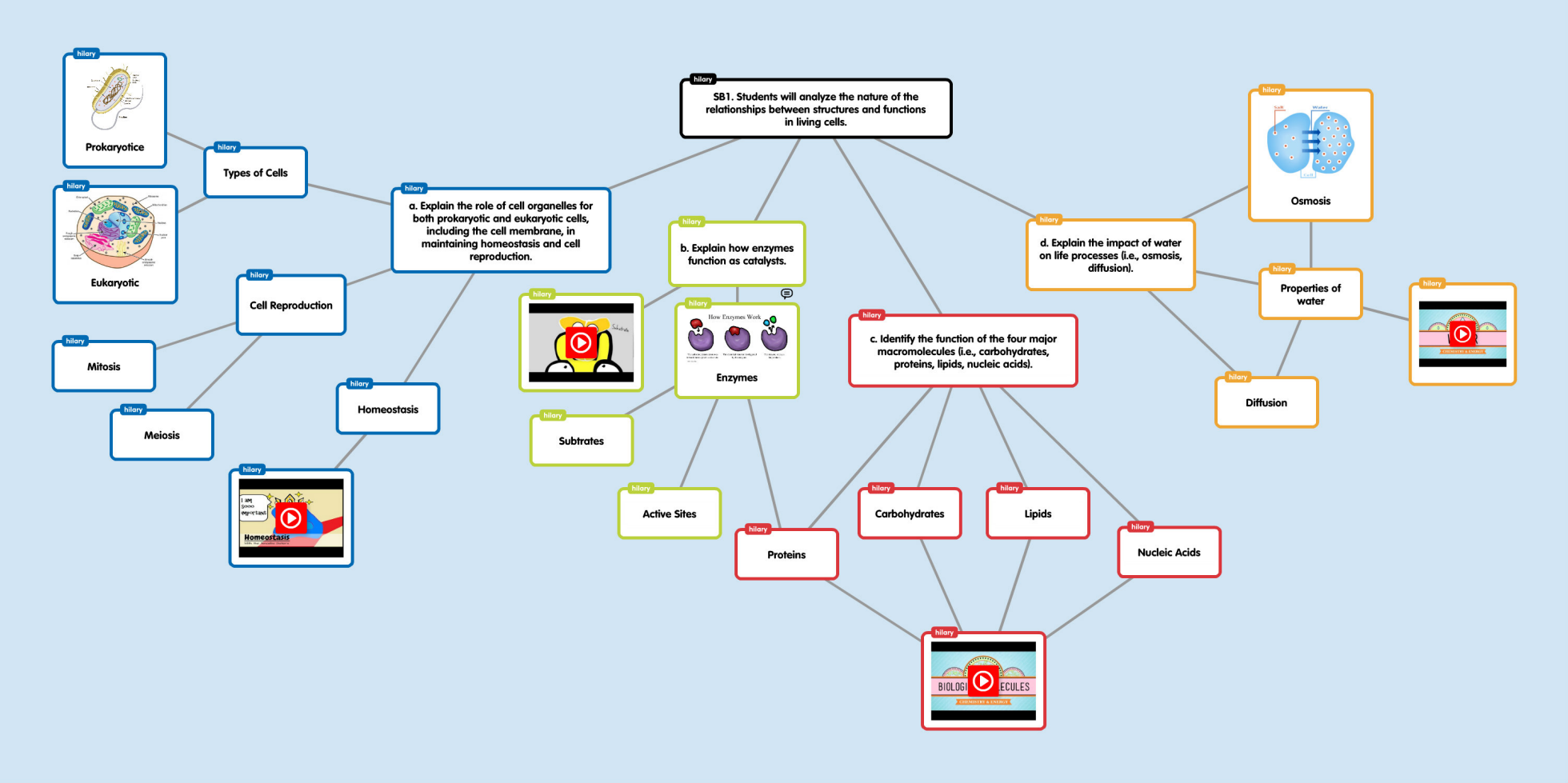
SB1. Students will analyze the nature of the relationships between structures and functions in living cells.
a. Explain the role of cell organelles for both prokaryotic and eukaryotic cells, including the cell membrane, in maintaining homeostasis and cell reproduction.
Types of Cells
Prokaryotice
Eukaryotic
Cell Reproduction
Mitosis
Meiosis
Homeostasis
Homeostasis
b. Explain how enzymes function as catalysts.
Enzymes
How Enzymes Work
Subtrates
Active Sites
c. Identify the function of the four major macromolecules (i.e., carbohydrates, proteins, lipids, nucleic acids).
Proteins
Carbohydrates
Lipids
Nucleic Acids
d. Explain the impact of water on life processes (i.e., osmosis, diffusion).
Osmosis
Properties of water
Diffusion