Biology Hour\_\_\_\_\_ Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Makeup Questions for: Is Yeast Alive Lab

Test 1:

Observe: more yeast appear on agar plate containing glucose than on the non-glucose-containing plate

Claim: This demonstrates that yeast reproduce

Evidence:

Reasoning:

Claim: This demonstrates that yeast metabolize

Evidence

Reasoning:

Test 2: Observed stained samples of dried baker’s yeast suspended in water. The stain used is destroyed when inside living cells.

Claim: This demonstrates that yeast have a cellular organization

Evidence: The yeast were oval in shape.

Reasoning:

Claim: This demonstrates that yeast metabolize

Evidence: Most yeast were clear in the presence of stain.

Reasoning:

Test 3: Observe unstained samples from yeast growing on glucose plate

Claim: This demonstrates that yeast grow

Evidence: Yeast of different sizes were observed

Reasoning:

Claim: This demonstrates that yeast reproduce

Evidence: Yeast budding was observed

Reasoning:

Test 4: Observe gas (CO2) production by yeast in different concentrations of sugar (glucose).

Claim: Yeast metabolize

Evidence: No gas observed without sugar. Increasing sugar concentration increases rate of gas production (bubbling).

Reasoning: