Name:	Ky Quiz 14
For glycolysis in a hepatocyte:	
1.	Name the enzyme or enzymes that catalyze steps that use up ATP equivalents (ATP, UTP, and GTP). afuckinase phosphoputokinase—
2.	Name the enzyme or enzymes that catalyze steps that create ATP equivalents (ATP, UTP, and GTP). phosphospycerate knows promote knows
3.	When a cell takes one glucose to two pyruvates how many ATP equivalents (ATP, UTP, and GTP) does the cell gain or lose?
For glu	coneogenesis in a hepatocyte:
4.	Name the enzyme or enzymes that catalyze steps that use up ATP equivalents (ATP, UTP, and GTP). phosphoenolpywate carbinghinase phosphoenolpywate hinase
5.	Name the enzyme or enzymes that catalyze steps that create ATP equivalents (ATP, UTP, and GTP).
6.	When a cell takes two pyruvates to one glucose how many ATP equivalents (ATP, UTP, and GTP) does the cell gain or lose?
Regulation of gluconeogenesis in a fed hepatocyte:	
7.	Consider your answers for numbers 3 and 6. A hepatocyte tightly regulates the processes of glycolysis and gluconeogenesis to avoid waste. No writing is necessary.
8.	Does the cell have high or low concentrations of fructose-2,6-bisphosphate?
9.	Is Phosphofructokinase-2/Fructose-2,6-bisphosphatase phosphorylated of dephosphorylated?