

Name: _____ Period: _____

<p>AP Biology Unit 4. Campbell Ch. 11-13. Your task is to create a quick study card for the Exam. MUST be handwritten. Accuracy, Neatness – Use ruler to draw charts, tables, etc. and appropriate use of color. Color needs to be embedded and used appropriately (<u>DO NOT just color large sections different colors.</u>) Title of the Quick Study Card in the Top Center of the page First and Last Name, Date in upper right.</p>	<p>checklist</p>
<p>1. Science skills: Write a CER in response to question 10, Campbell p. 233 (11th ed).</p>	
<p>2. Science skills: Design an experiment to answer the question, what is the effect of caffeine on the rate of mitosis in frog eggs? Label: hypothesis, null hypothesis, independent and dependent variables, control group. Specify material and time amounts and what you will measure.</p>	
<p>3. Create a chart comparing long and short distance cell communication methods, molecules, and examples.</p>	
<p>4. Using G protein-linked receptors as examples, diagram and label a signal transduction pathway. Include a second messenger.</p>	
<p>5. What are the possible results/ responses of a signal transduction pathway? What would happen if any component were mutated? Specify. What else could interfere with proper functioning of the pathway?</p>	
<p>6. Create a chart comparing negative and positive feedback mechanisms. Include an example in both a plant and an animal.</p>	
<p>7. Create a chart of the steps of the cell cycle. Include events and purpose of each step. What is G₀?</p>	
<p>8. Describe the roles of cyclins and cyclin-dependent kinases. Give an example of a checkpoint and its importance.</p>	
<p>9. What is apoptosis and why might it occur?</p>	
<p>TOTAL</p>	