




PGISD Priority Standard Summary Chart

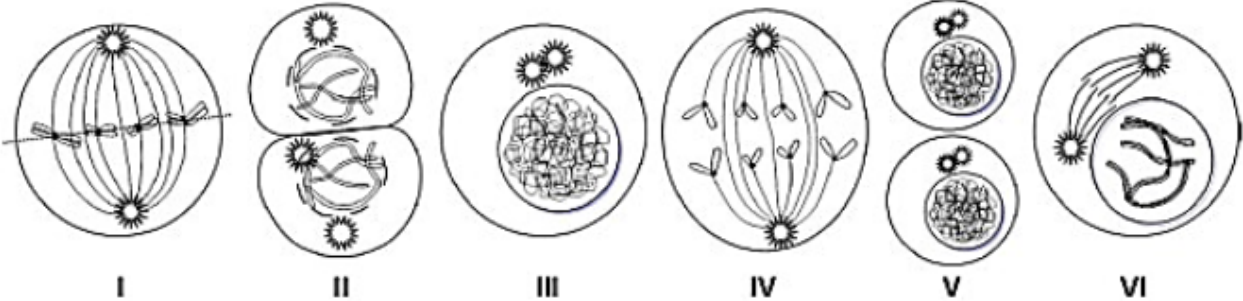
Priority Standard: B.5A - Describe the stages of the cell cycle, including DNA replication and mitosis, and the importance of the cell cycle to the growth of organisms.

Ladder: Top rung is the standard in its entirety. Please write in the learning target for each rung until you reach the top rung. Add rows if needed.

	Priority Standard	Describe the stages of the cell cycle, including DNA replication and mitosis, and the importance of the cell cycle to the growth of organisms.
	Step 6 to Proficiency	I can understand that cytokinesis divides the cytoplasm and creates two new cells.
	Step 5 to Proficiency	I can describe the events of each stage of mitosis (prophase, metaphase, anaphase, and telophase)
	Step 4 to Proficiency	I can understand that mitosis is division of the nucleus
	Step 3 to Proficiency	I can describe the three stages of interphase.
	Step 2 to Proficiency	I can understand that DNA must be copied before new cells are made.
	Step 1 to Proficiency	I can recognize that DNA holds the genetic instructions for the cell.



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Grade: 9	Subject: Biology
Example of Rigor: What does proficient work look like? What DOK level? Provide an example or description.	<p>The models represent the stages of the cell cycle in random order.</p>  <p>What sequence lists the stages in the order they occur?</p>
Prerequisite Skills: What prior knowledge, skills and/or vocabulary are needed for a student to master this standard?	DNA, genetic material/nucleic acid, synthesis, nucleus
When Taught: When will this standard be taught?	Unit 4
Common Assessments: What assessments will be used to measure student mastery? (CFA and Unit assessment) Link them here.	CFA Cell Cycle Quiz , Common Unit assessment on Eduphoria
Extension What will we do when the students have	Students can research what can happen if the cell cycle is not regulated properly; they can also compare and contrast mitosis and meiosis



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already learned this standard?	
Additional Instructional Materials (Link here)	Cell Growth and Division Presentation , Cell Growth and division notes , Onion root lab , Onion root picture