PowerUp! Instructional Unit

Unit Plan Title: Mitosis/cell cycle

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Academic Vocabulary:	**Grade Level:**	**Length of Unit:**
Mitosis, interphase, anaphase, telophase, metaphase, prophase, mitosis, cell cycle, cytokinesis	10	2 days – one lesson in unit on cell biology

Science/Math Standard(s): *What standards will provide the focus for this unit?*

1. L. 1.1. Students are able to relate cellular functions and processes to specialized structures within cells.

Essential Questions: *What essential questions will focus this unit?*

1. Why are cells microscopic?

2. What controls cell growth and division?

Content: *What topics do students need to know?*	**Skills:** *What should students be able to do?*
Students will need to know: Steps of cell cycle, stages of mitosis Cell organelles and functions	Students will need to be able to: Operate a computer independently, read and follow instructions Fill in answers on worksheet using computer Access worksheet from a common file stored o the network

Assessment(s): *What evidence will show that students understand?*

Performance Tasks, Projects: complete web quest worksheet, identify stages of mitosis in classroom lab using prepared slide of onion root tip

Quizzes, Tests, Academic Prompts: pre and post test Achievement series

Informal observations/discussions/interviews: questions/answers that teacher generates as students are working through the assignment. I circulate around the room and provide feedback to students who are making mistakes in the choices offered.

Student Self-Assessment: The cell cycle game provides immediate feedback when students make incorrect choices. They must make the correct choices to finish the game.