Diary of a Cell: A Cross-curricular exposition of the cell

This week we will be using the iPads to begin our study of the cell. Students will use the free apps and/or the interactive sites to explore the cell theory and function.

This week will involve students using the following app:

- **Hudson Alpha iCell**: provides interactive 3D models of animal, bacteria, and plant cells

Cell Theory Intro:

- Watch Cell Theory Intro
- Take Notes using teacher-designated Exploratree template

Explore Plant & Animal Cells (and Cell Function):

- Explore Plant & Animal Cell focusing on molecule transport, reproduction, and energy conversion
  - iPad: HudsonAlpha iCell
  - Web 2.0: Cells Alive, HudsonAlpha iCell
- Take Notes using teacher-designated Exploratree template
- Compose an expository text on cell function (incorporate vocabulary: organelles, cell membrane, nucleus, cytoplasm, mitochondrion, chloroplast, & vacuole)

Cell Signals & Interaction:

- **Fight or Flight**: video
- **Dropping Signals**: interactive

- Virtual Cell Animation Collection

8th PreAp: How is happiness defined for a cell (need fulfillment)? What things make a cell “unhappy”? How do decisions and actions affect personal happiness (fight or flight)? - original poem

- Poem Interactives: ReadWriteThink, Interactive Poem Form Finder, Tagxedo

- Cell Poetry Examples: Organelle, Stem Cell

8th ACL: How does a fully-functioning cell contribute to our health/happiness? Is health (physiological) more important than wealth, safety, love? - persuasive essay (research Maslow’s hierarchy and background Cell song, Cell Theory Song)

Creative Writing Extensions:

- Diary of a Cell (worm sample lesson), Social Profile Page/Blog, Cartoon, Book

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