

# Materials List:

## Cells and Diseases Unit

The materials needed for this unit are presented in chronological order as the unit progresses. Many lab activities can be presented as demonstrations if you are short on equipment.

- 1.) **Computer that runs Powerpoint.**
- 2.) **LCD Projector (For Classroom Teachers)**
- 3.) **Powerpoint remote for advancing slides (Recommended! - Unit has 1050+ slides)**
- 4.) **realPlayer for videos**  
<http://www.real.com/realplayer/search>
- 5.) **Marbled Science Journal (Class Set)**
- 6.) **(Optional) – Get the kids really interested by reading by Richard Preston, buy real cheap on Amazon. – I just read some selected parts from the first two chapters. The kids really enjoy it and always want me to keep going.**
- 7.) **(Optional) – Perform a gram staining lab. I have omitted the lab I usually do, but it fits in nicely if you have the time and supplies.**
- 8.) **BAZAAR Café (Food Borne Illness Activity) Fill 16 dishes that can hold water. Give each a name on a notecard of something found in a typical buffet. Add baking soda to two of the dishes. Mix properly. Need class set of cups and plastic spoons. Litmus paper at the end of the activity is required to see which students have contracted the bacterial infection (baking soda water)**

- 9.) (Optional) Glo-Germ lotion and Blue light. Students rub Glo-Germ on and then learn proper hand washing techniques. Blue light unveils the places missed by hand and soap washing.**
- 10.) (Optional) Floss and some tissues. Students watch a video about proper flossing and then floss at their seats.**
- 11.) HIV Simulation – Class set of cups (Not clear) Mix one or two with baking soda. Conduct activity described in Powerpoint slideshow and test each students cup with Litmus paper.**
- 12.) Microscopes Cheek and Onion Cell Lab – 1 Onion, Class set of microscopes, glass slides and cover slips for each students, tooth picks to gather cheek cells. Eye-droppers and water for wet mount slide.**
- 13.) Poster boards, or large white paper and colored pencils / crayons to make large cellular organelles. Using laptops and Microsoft Publisher will also work well.**
- 14.) Air Freshner (Aerosol) – Works as a demonstration to show diffusion**
- 15.) Osmosis Lab – Table group set of clear containers, semi-permeable membranes, water, Iodine, and Starch Powder.**
- 16.) Egg in vinegar. Table group set of clear containers, apple cider vinegar, eggs. Time.**
- 17.) Notecards – Endoplasmic reticulum activity**