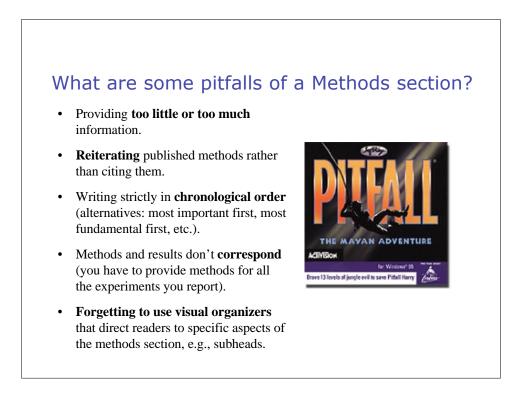
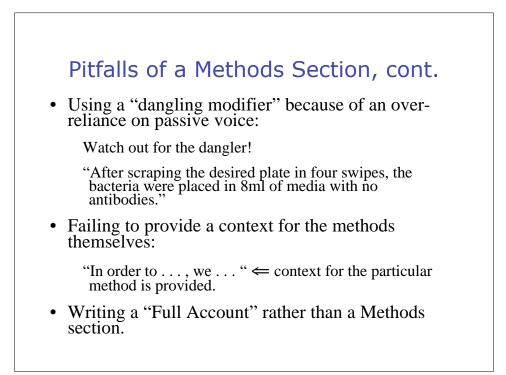
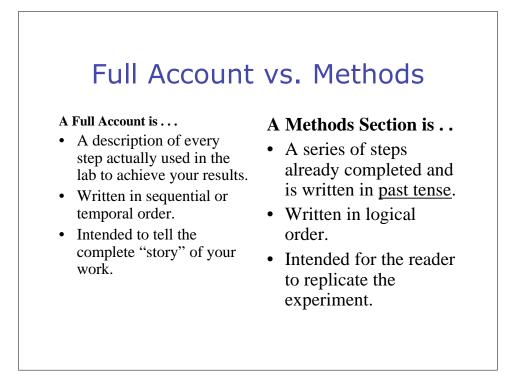


According to Paradis and Zimmerman,

"The experimental [or methods] section of an article **describes the tools and processes that enabled you to meet the stated objectives of the introduction**. . . . This section will be read for at least two major reasons. First, readers will judge how skillfully you have designed the empirical process of problem solving. Second, readers may test your methodology against your results in their own laboratories. In experimental sections, clarity and accuracy are priorities."



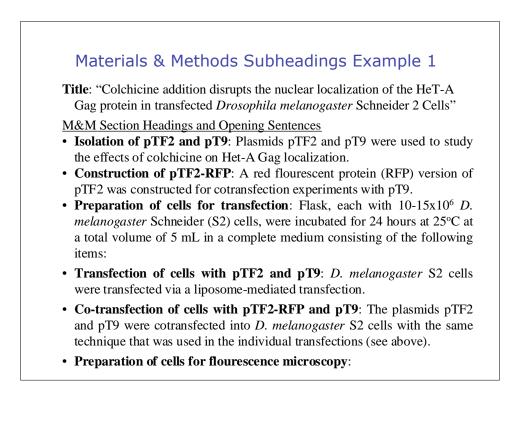




Bad vs. Good 7.02 Genetics Methods Examples (from KBS)

1 ml of an overnight culture of *E. coli* bacteria was inoculated into 50ml of LB or M9 media and grown at 37° C for 4 hours in a New Brunswick Scientific water bath. At regular intervals, 1 ml of culture was removed from the flask using sterile technique (flaming tubes, flasks, and tips) and placed on ice. The OD550 was taken of each sample in a Milton Roy Spectronic 601 spectrophotometer blanked with medium alone. Additionally, a set of serial dilutions of each sample was made in saline. Diluted samples were plated on LB plates and grown overnight at 37° C.

Generation of Bacterial Growth Curves. One ml of an overnight culture of BW140 *E. coli* bacteria was inoculated into 50ml of LB (or 4 ml of culture into 50 ml of M9 media) and grown at 37°C for 4-2.5 hours with shaking. in a New Brunswick Scientific water bath. At regular 30 minute intervals, 1 ml of culture was removed from the flask using sterile technique (flaming tubes, flasks, and tips) and placed on ice. The OD₅₅₀ was taken of each sample in a Milton Roy Spectronic 601 spectrophotometer blanked with medium alone. Additionally, a set of serial dilutions (10⁻¹, 10⁻², 10⁻³, 10⁻⁴, 10⁻⁵, 10⁻⁶) of each sample was made in saline. Diluted 100 µl of the 10⁻⁴, 10⁻⁵, and 10⁻⁶ samples were plated on LB plates and grown overnight at 37°C. Colonies were counted, and used to create two graphs on semi-log paper: OD₅₅₀ vs. time and cfu/ml vs. time.



Materials & Methods Subheadings Example 2 Title: "Investigating the Role of CG7593 in HeT-A Nuclear Localization in *Drosophila melanogaster* Schneider 2 Cell" M&M Sections Plasmids, Bacterial Strains, and Drosophila Cell Culture Gel Electrophoresis Polymerase Chain Reaction (PCR) Primers Restriction Enzyme Digestions Ligations and Transformation Preparation of *CG7593* dsRNA Construction of pPL17 EGFP Vector Containing *CG7593*Liposome-Mediated Transfection of Cultured Drosophila Cells Slide Preparation Viability Analysis

