

Technology Support

As the role of technology support within this kit is to provide instruction in the use of Excel & PowerPoint, no specific plans are required. This person will be responsible for giving a brief introduction to these two applications using the specific plans provided in the kit. Specifically, these are:

- *Excel: Pedigree Chart*
The student will create a “pedigree” chart of several genetic attributes, going back several generations. Excel will be used to create the chart.
- *PowerPoint: Genetic Disorders*
The student is to research genetic disorders and create a presentation.

Core Standards: Same as for the science plans.

Alternate Lesson Plans

The following lesson plans are from Microsoft’s Lesson Plan site. As of this writing, there were no plans specifically for the subject material of this kit. However, the two plans are somewhat related. The Excel plan covers the collection and interpretation of gathered data. The PowerPoint plan covers a more closely related project in DNA, which is geared towards research and presentation in various formats.

Excel: Personal Energy Meter
(see Excel Lesson Plan.pdf)

Energy costs are on the rise again, after years of calm. At the same time, our society is more “plugged in” to the energy grid than ever before. This lesson asks your students to take a close look at their own energy use, tally up the costs in dollars and environmental impact, and think of ways to save.

Objective:

- To analyze the amount and cost of energy used for personal day-to-day activities
- To explore methods for and effects of conserving personal energy
- To advocate for better energy conservation among peers and the public

PowerPoint: DNA Technology Research DNA Technology Research
(see DNA Lesson Plan.pdf and PPT)

This is a three-part plan:

- 1) Research DNA technologies and develop a PowerPoint presentation
- 2) Write a short story using DNA fingerprinting technique as an integral part of the plot
- 3) Compose a newsletter that involves both the DNA research and the short story

Note: The plan can be reduced to its component parts, as needed.

Resources

<http://lessonplanet.teacherwebtools.com/index.html>

<http://www.microsoft.com/education/default.asp?ID=LessonPlans>