

Teacher's Guide for *Odyssey: Unwired*

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Science Scoops (pages 2-5)

Multitasking Maniacs-Beware

- Write a paragraph to explain why multitasking is not good to do while attempting to complete homework
- Research the functions of different parts of the brain.
- Design a poster or ad campaign discouraging students from multitasking while doing schoolwork.

Galaxy Zoo

- If possible visit the Web site if not use your imagination. Write a news report to tell about your findings.

Getting Connected-Wirelessly (pages 6-9)

- One suggestion for use with this material is to use a **co-operative learning strategy**, such as a **Jigsaw** or a **Literacy Circle**. Each group would be responsible to read the article, make notes and be prepared to make a presentation to the rest of the class if necessary. Questions to focus their reading might be the following:
 1. Explain how new notebooks are wireless.
 2. Describe how a computer is a "multitasker".
 3. What are the drawbacks of a smart phone?
 4. How are scientists continually trying to improve smart phones?
 5. After reading this article, make a list of all possible wireless gadgets that you might own.
- Write a paragraph predicting the wireless items/systems you might be able to use in the future.

Teens in the Metaverse (pages 10-14)

Creative Work

- Metaverse and avatars go beyond having a childhood imaginary friend. Create your own avatar.
 1. Provide a profile for your avatar-name, appearance, home, likes/dislikes, circle of friends, activities, etc.
 2. Keep a daily diary about his/her actions and interactions.
- Write a persuasive advertisement explaining why participating in Teen Second Life helps teens prepare for their future.

A Wizard's Vision of a Wireless World (pages 15-18)

- Write an essay using a title similar to the following: Tesla, A Man Before His Time
- Ideas for discussion:
 1. Describe how a frog contributed to portable power.
 2. Explain how we are getting closer to a wizard's wireless world.

Sqezng Yr Wrds (pages 20-22)

- These words/methods are described or mentioned in this article. For each word explain what it means and how it works. **Bandwidth, binary code, JPEG, lossy compression, run-length encoding, Huffman coding and index**

Albina's Cell Phone (pages 23-25)

- List reasons why technology, especially Wi-Fi is important in areas like Albina's village.

Wireless Odyssey (pages 24-25)

Persuasive Writing

- Choose one of the articles on these two pages. Write a news report telling about the information. Encourage others to contribute in some way to further the cause.

Have You Been Exposed to Electrosmog? (pages 26-28)

- Questions for discussion-
 1. What is EMF?
 2. What is electrosmog?
 3. Explain thermal hazard.
 4. What is electromagnetic sensitivity?
 5. Is there conclusive evidence about the harm of electrosmog? Explain your answer.

Simply Weird (pages 30-32)

- Create your own story using the same terms. Make a copy with blank spaces and ask your friends to complete the task.

Career Watch: Working on the Internet (pages 33-36)

- Go to TakinItGlobal.com. Write a report that tells about everything offered by the Web site.
- Todd Fraser has contributed much to computer knowledge and usage. Explain this statement.
- Explain "...he(Sameer Halai) was more interested in designing the user experience."

Urban Geocaching (pages 37-40)

- Arrange the students in pairs to complete this assignment.
- Use the **Think, Pair, Share** method and ask the students to read this passage. The students should read the article with their partner. Secondly, they should discuss the following:
 1. What is geocaching?
 2. What is a GPS?
 3. What might be placed in a cache?
 4. What are some of the rules of geocaching?
 5. Who are muggles?

6. Explain triangulation.

Wiki Wise (page 41)

- Use the **Read Aloud** method to share the contents of this section.
- During or after reading use these prompts to focus on the content.
 1. Explain wiki.
 2. Describe how you would start a wiki.