Teaching Guide to Shortcuts by Jeff Harris

Introduction

Shortcuts by Jeff Harris is a beautifully illustrated, fact-packed page that makes learning fun. Each week, *Shortcuts'* multicultural cast (Juanita, K., Roland, Junior and James) offers facts, riddles, jokes and puzzles to help kids learn about science, geography, animals, food, history and holidays.

Each teaching guide provides ideas for expanding the lesson and creating discussion and learning activities for your students. The grade level for the guides is usually 3rd to 4th, but they can be adapted for use at other levels. The guides are broken down into four areas:

1. Questions for Discussion and Further Study

Designed to help students think and research, not just give one-word answers

2. Activity Ideas

Designed to allow students to be creative and teach themselves

3. Use the News

Designed to have students use the news in studying each topic

4. Quick Quiz

Designed to be adaptable to several grade levels, evaluate students' comprehension and build vocabulary and math skills

You might use the teaching guides in the following ways:

Questions for Discussion and Further Study: Engage the entire class by asking each question aloud and listing the students' answers on the board. Or have them use reference resources to give their own answers to the questions. Allow them to discuss other students' answers after they've researched the topics. Key words or phrases that can help students search for more information are italicized.

Activity Ideas: Give the students a time limit to research their projects, using library or study time. By having the students cite their resources you can check their work; or, alternatively, tell them which resource(s) you prefer them to use.

Use the News: These can be worked on individually but we suggest they work in groups to learn teamwork skills.

• Quick Quiz: We suggest you review the quizzes ahead of time and change the phrasing or difficulty level based on the students' abilities.

Shortcuts: SCRATCHING THE SURFACE OF MOLD

For release the week of: July 29, 2013

Objective: After completing the exercises, students should have a better understanding of mold.

Subject Areas: The following information about mold will be discussed:

Appearance

Reproduction

• Penicillin

Evaluation: Students may be evaluated using the following point scale:

Four points: Information is accurate, organized, shows creative thought/use of materials

Three points: Information is accurate and organized

Two points: Information is mostly accurate; organization needs some work

One point: Significant inaccuracies; lacks organization

Topics for Discussion and Further Study

1. What does mold look like under a microscope?

2. Could mold survive in Antarctica?

Activity Ideas

http://lcmrschooldistrict.com/roth/PowerPoint_Lectures/chapter21/videos_animations/slime_mold.html Read about it here: http://en.wikipedia.org/wiki/Slime_mold

• Penicillin is a chemical made from mold that works as an antibiotic to kill bad bacteria in our body. How does it work? Check out this brief video to see the bad bacteria being "taken out" by penicillin: http://www.cellsalive.com/pen.htm Be sure to read the text at the beginning of the video. You may want to pause it long enough to read it and discuss it.

Use the News

Mold is very common in warm wet places, and may occur in your home. How should we
deal with it if we find it? Research and write a brief news article informing people how
to prevent or remove mold in our home.

Answers to the Quiz

Quick Quiz — Mold