

Teacher Guide for ASK, "Lost and Found"

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Betty Lou Askin, a retired educator who lives in Toronto Ontario, prepared this guide.

Scoops (pages 2-3)

Wood a Crab Eat That?

- Describe "wood falls".
- Why have some shrimp and crabs taken to eating wood?
- Describe how these creatures eat and digest wood.

Those Amazing Naked Mole Rats

- Describe a naked mole rat.
- Explain how it lives.
- Why are scientists studying these rats?

Dogs Get the Point

- What is nonverbal communication?
- Explain why scientists think that dogs understand nonverbal gestures.

Nestor's Dock (pages 4-5)

- Tell how Nestor was being helpful to Phil.
- Describe how Phil showed his creativity.
- Why was Phil dismayed after he finished his fort?
- Comment upon Nestor's last words.

The Emperor's Silent Army (pages 6-13)

During or after reading this article, use these prompts to highlight the content:

- How was the clay army found?
- Describe the ancient clay soldiers.
- What else was found buried with the army?
- Defend why Emperor Qin built such an elaborate burial site.
- Recount several ways in which Emperor Qin protected his tomb.
- Why do you think that he buried an army?
- Describe the army.
- Comment upon how each soldier was an individual.
- Tell how officers can be distinguished from regular soldiers.
- Why do you think that Qin buried the army?
- Relate what legend says about the tomb.
- Why has his tomb not been open to date?
- Would you say that Qin got his wish? Defend your answer.
- Creative Writing:
 - Create a news report telling the world about this ancient discovery. Use information from this article to provide the details.
 - Develop an essay telling about emperor Qin.

Lost Sounds (pages 14-15)

Questions to use with this content:

- Explain how scientists believe that **Parasaurolophus** made sounds.
- What is a rebel Yell?
- How did S. Waite Rawls help to recreate a Rebel Yell?
- Comment upon why Northern soldiers said "their hair" stood up on end.
- What are sound waves?
- Describe a **phonautograph**.
- Recount how a phonautograph sound was brought back into the 21st century.

Miss Me (pages 16-18)

Questions to consider:

- How was Captain Goosen helping M. Courtenay-Latimer?
- Describe the exterior of the coelacanth.
- Why was Dr. Smith amazed?
- Describe its body and how this helps it survive.
- Why do you think that this fish has survived for millions of years?
- Describe a Wollemi pine.
- How are scientists trying to preserve this ancient tree?

Mummy Makers (pages 19-23)

Questions/activities to use:

- Writing Work:
Use the information on pages 19 and 20 to write several paragraphs. Using your own words recount the ancient process of mummification.
- Why were bodies mummified?
- Comment upon the secrecy of mummification.
- How did Brier and Wade learn the process of mummification?
- What did they do to prepare themselves for the deed?
- What did Evershed and Buckley discover?
- Why do you think that the study of mummies important?

Still Lost (pages 24-27)

- The students may not be familiar with some of these lost items or the people named.
- Read each poster together. Discuss the information and the humor included in most of the data. E.g. returning the item to a long dead person.

Jimmy the Bug (page 32)

- Comment on the natural diet of flamingos.
- Explain **carotenes**.
- What foods are rich in carotenes?
- Why would blueberries not turn flamingos blue?

Marvin and Friends

- What is a time capsule?
- Justify why the rules would say no food.
- Why do you think that Marvin decided to place the rules in the glass time capsule?

Don't forget:

- To hear some lost sounds at www.askmagkids.com/links

- To choose six things relating to 2010 to put in your time capsule.
- To send a picture of your time capsule to ASK.
- To ask Jimmy the Bug a scientific question.