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# Digging for Clues Under the Ground

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# DIGGING FOR CLUES UNDERGROUND

PRE-K-4

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# **UNDERGROUND CLUES**

## **EXAMINE CROSS SECTION OF EARTH MODEL**

### **QUESTIONS TO STIMULATE THINKING:**

- 1. HOW MANY LAYERS OF THE EARTH?**
- 2. WHAT ARE THE LAYERS MADE OF?**
- 3. HOW DO SCIENTISTS KNOW ABOUT THE CENTER OF THE EARTH?**

# UNDERGROUND CLUES

## MAKE MODELS:

PLAY DOUGH EARTH

LABEL LAYERS

APPLE EARTH

BOILED EGG EARTH

SCIENCE LITERACY (*CHANGES IN THE EARTH* BY KRISTA WEST)

# UNDERGROUND CLUES

## Other Topics to Consider:

\*Rocks

\*Earthquakes

\*Volcanos

*The Magic School Bus, Inside the Earth* by Joanna Cole  
explores rocks, volcanos and earthquakes

*Changes in the Earth* provides model ideas

\*Plants

*How Plants Grow*, Angela Royston

*Tops and Bottoms* by Janet Stephens

\*Underground animals

\*Habitats

# UNDERGROUND CLUES

DEFINE “HABITAT”

A PLACE

PURPOSE?

EXAMPLES OF HABITATS

WHY ANIMALS NEED SPECIFIC

HABITATS

# UNDERGROUND CLUES

## UNDERGROUND ANIMALS

### Chart

### Handout of underground and burrowing

[www.enchantedlearning.com/coloring/Underground.shtml](http://www.enchantedlearning.com/coloring/Underground.shtml)

### Books

*Let's Look at Animals Underground* by Claude Delafosse & Gallimard Jeunesse

*The Diary of a Worm* by Doreen Cronin

*Yucky Worms* by Vivian French

*Look Once Look Again Underfoot* by David M. Schwartz

*Ants and Their Nests* by Linda Tagliaferro

# UNDERGROUND CLUES

## MUSIC/DRAMA

### The Ants Go Softly Round and Round

Tune: The Ants Go Marching One by One (Scholastic)

The ants go softly 'round and 'round.

Sh! Sh!

The ants go softly 'round and 'round.

Sh! Sh!

The ants go softly 'round and 'round,

They creep and crawl upon the ground,

And they all move closer,

Eyeing the picnic feast



# UNDERGROUND CLUES

## FINGER PLAY

NATURE BOXES FOR EARLY CHILDHOOD EDUCATORS, DEBBI WILLIAMS, STORY COUNTY CONSERVATION BOARD LINDA R. F. ZALETEL, 56461 180TH ST., AMES, IA 50010

[WWW.STORYCOUNTY.COM](http://WWW.STORYCOUNTY.COM) GO TO “CONSERVATION AND PARKS”

HERE IS THE MOLE THAT LIVES UNDERGROUND.

*CLOSE EYES AND PUT HANDS UNDER YOUR CHIN.*

HERE ARE THE ANTS IN THEIR UNDERGROUND TOWN.

*USE FINGERS TO SCURRY ON THE BACK OF THE OTHER HAND.*

HERE IS A MOUSE IN HER WARM LITTLE DEN.

*WRAP ARMS AROUND TORSO.*

HERE ARE THE WORMS AND THERE ARE TEN.

*HOLD UP HANDS AND WIGGLE TEN FINGERS.*

HERE IS THE TURTLE WHERE HE LIKES TO HIDE.

*MAKE A FIST (TURTLE'S SHELL) AND WIGGLE THUMB (TURTLE'S HEAD).*

HERE ARE THE TOADS SITTING SIDE BY SIDE.

*PLACE TWO CLOSED FISTS SIDE BY SIDE.*

ALL OF THESE CREATURES LIVE UNDERGROUND.

*POINT TO THE GROUND.*

LOOK VERY CLOSELY OR THEY'LL NEVER BE FOUND!

*MAKE BINOCULARS WITH HANDS AND PLACE THEM IN FRONT OF YOUR EYES.*

# UNDERGROUND CLUES

Technology:

Visual Websites

<http://school.discoveryeducation.com/schooladventures/soil/>

[http://www.colegiobolivar.edu.co/library/underground\\_creatures.Htm](http://www.colegiobolivar.edu.co/library/underground_creatures.Htm)

<http://vi.sualize.us/view/df1a75b47faea18995cdd1aa0c18c1fb/>

[www.enchantedlearning.com/coloring/Underground.shtml](http://www.enchantedlearning.com/coloring/Underground.shtml)

Activities:

<http://www.yucky.com/flash/index.html>

Technology Scavenger Hunt

Habitats and Adaptations

Worms

# UNDERGROUND CLUES

## Mathematics/Music:

*The Ants Go Marching One By One* (Scholastic)

*One Hundred Hungry Ants* by Elinor J. Pinczes

# NATIONAL SCIENCE EDUCATION STANDARDS

K-4 STUDENTS SHOULD DEVELOP AN UNDERSTANDING OF:

## THE CHARACTERISTICS OF ORGANISMS

BASIC NEEDS  
DIFFERENT STRUCTURES  
BEHAVIOR INFLUENCED BY INTERNAL/EXTERNAL CUES

## LIFE CYCLES OF ORGANISMS

BIRTH, DEVELOPING INTO ADULTS, REPRODUCING AND DYING  
ORGANISMS CLOSELY RESEMBLE THEIR PARENTS  
CHARACTERISTICS ARE INHERITED FROM PARENTS;  
SOME RESULT FROM INTERACTIONS WITH ENVIRONMENT

## ORGANISMS AND ENVIRONMENT

ALL ANIMALS DEPEND ON PLANTS  
PATTERNS OF BEHAVIOR ARE RELATED TO THE NATURE  
OF THAT ORGANISM'S ENVIRONMENT  
ORGANISMS CAUSE CHANGES IN THE ENVIRONMENT  
WHERE THEY LIVE  
HUMANS DEPEND ON THEIR NATURAL AND CONSTRUCTED  
ENVIRONMENT