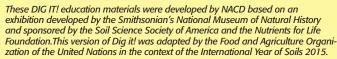
SECRETS FOR SAVING YOUR SOIL We need to do a better job of taking care of our soils. Soils can take hundreds of years to form so we need to take good care of the soils we have. What can you do?

- Adopt a piece of the Earth pick a little piece of ground in your yard, neighbourhood or playground and adopt it. Keep the litter picked up. Grow "native plants" – or plants that naturally grow in your area. Lay down logs to stop erosion.
- **Don't bag it** don't take a bag at the store if you are just buying one or two things. Even better, bring your own reusable bags! Paper bags are made from trees and plastic bags are made from oil, both are natural resources. Trees are renewable and oil is not renewable. When both are taken from the Earth, the soil is disturbed and can be polluted.
  - Feed some worms give your dinner scraps to some hungry worms and you can make some soil yourself! Worms can eat their own weight in your leftover food scraps each day! They use these food scraps to make compost, which is great to add to soil. Ask an adult to help you start composting with worms or investigate other ways to compost! Composting is easy and a great way to improve soils.

Ask Maxine





**(** 



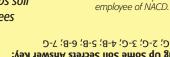


Soil Science Society of America



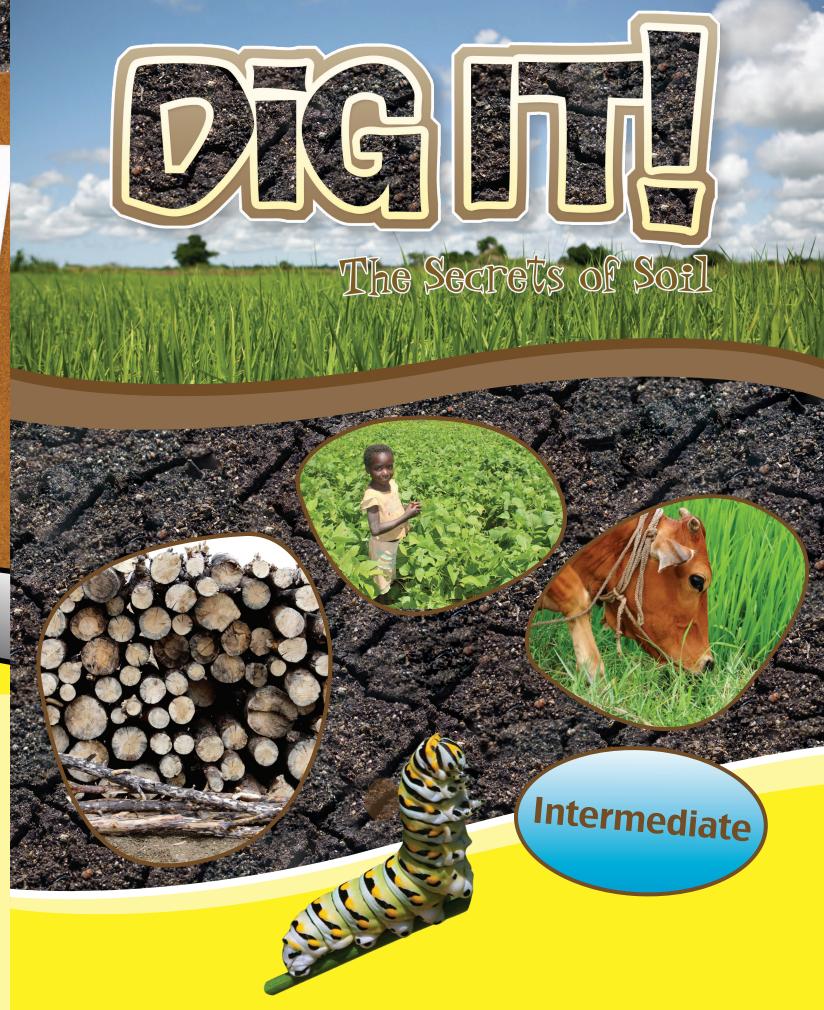
### Q: What is soil erosion?

A: Take a look when you are outside after it rains. Look at the water in the rivers and ponds or even along roads. Is the rain water clear or muddy? If it is muddy, soil is being washed away and mixing with the water. This is soil eroding away. What keeps soil in place after it rains? Rocks and roots from trees and other plants keep the soil in place.



Maxine is a 47-year

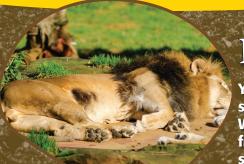
1-C; 2-C; 3-C; 4-B; 5-B; 6-B; 7-C Dig Up Some Soil Secrets Answer Key: Dig It and Plant It Answer: Dig It!



Booklet designed by Willow Marketing • Content written by T.D. Southerland • Project Manager SM Schultz stewardship@nacdnet.org Special thanks to the Smithsonian Dia It! The Secrets of Soil exhibition team: SSSA K-12 Committee: NACD S&E Committee Correlations to national standards, educators guide and answer key at http://nacdnet.org/education Booklet designed for use with ages 7-9



## WHAT'S SOIL GOT TO DO WITH IT?



### Did you **Sleep** on soil last night?

Yes you did. About one-third of the planet Earth is covered with soil. We build our homes, schools, stores and restaurants on soils. We also use lumber from trees grown in soil and bricks baked from soils to build our homes! We build landfills, ponds and septic systems in soils.



### Have you WOTT any soil lately?

Maybe. And that doesn't mean you need to take a bath! A lot of our clothes like jeans, tee shirts, socks and underwear have cotton in them. Cotton is grown in soils. Or maybe you have a coat made from wool. Wool comes from sheep, and sheep eat grass that grows in soil. Do you have a leather belt or leather shoes or boots? Leather comes from the cattle that eat the grass that grows in the soils!



## Have you eaten any soil today?

Well...yes...kind of...you have. Cereals, vegetables and fruits are grown in soils. Plants get minerals and nutrients from soils. We get the minerals and nutrients we need to stay healthy from plants. Almost everything we eat is raised either in soils, like potatoes, or on soils, like beef. Cows eat hay and grass grown in soils.



If you haven't, you are probably pretty thirsty right now. All water comes in contact with soil at one time or another. It may flow through soils, under soils or float on top of soils. Soils help filter and clean the water people and animals drink.



The fields, forests and playgrounds around your home all come from soils too. The wildlife living in these ecosystems need soils just as much as you do!







(3 products will have 4 connections and 2 will only have 3 connections)



























**ÖZ**ŢŢ



One way to stop soil erosion is to <u>PLANT</u> trees or grasses. The roots help <u>HOLD</u> soil in place when it rains. Branches and leaves slow down the rain as it falls on the ground. Leaves that have fallen off the tree help protect the soil.

Use the underlined words to fill in the blanks. Then find the mystery words in the puzzle!

1. Plant roots help	soil in place.
2. It takes a long time to n	nake
3. Bare	leads to soil erosion.
4. During one season 2.5	of soil can be lost.
5	trees and grass to stop soil erosion.
1	
2	
	3
4	

Some Soil Secrets Since you have discovered that you sleep on soils, eat soils, wear soils and play on soils, aren't you glad we have them? Now it's time to find out some ways soils depend on us to take care of them every day. It is also important to think about things that we do that may harm soils. Soils can take hundreds of years to form so they are very hard to replace. Because we use soils every day, it is important to take care of them. If the photo is showing something good for the soil put a G in the space. If the photo is showing something bad for the soil put a B in the space.

(Write the mystery word on the line above.)

The Secrets of Soil



## We Need To Take Care Of Soils!

It would be hard to live for even one day without soils. Think about what a day would be like if we didn't have any soil on Earth.

Write six things you use every day that come from soils.

1	4
2	<b>5.</b>
3.	6.

# Draw a picture of your favourite thing that comes from soils.

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