

EARTHWORMS

depend upon soil. For example:

some components of both cell phones and computers are manufactured using materials mined from soil, our homes are built with materials that grow in soil, the air we breathe is produced by plants that grow in soil, and most of the food we eat grows in or on soil.

For all of these reasons and many more it is important that our soil is healthy. HEALTHY soil needs air, water, minerals, organic matter, and living elements such as insects, worms and microbes.

Healthy Soil Word Search Find the words listed below on this placemat AND in this puzzle and circle them in **BOTH** places. Words in the puzzle can run up, down, forwards, backwards or diagonally.

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AIR CROPS **GROW** MULCH SOIL EARTHWORM **HEALTHY ORGANIC** TREES **ANIMALS COMPOST EROSION** HOME **PLANTS VEGETATION** CONSERVE FOOD LIFE **RECYCLE** WATER

GRAM of soil! (One gram of soil is about th size of a navy bean.) These organisms do many things that make our life better such as:

FUNGI

- increase soil fertility providing us with nutrient rich food.
- produce some of the medications we use - like antibiotics.
- recycle carbon used by plants during photosynthesis - giving us air to breathe.
- filter water as it passes through helping purify our drinking water.

Healthy Lives Depend on Healthy Soil!





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	For examp	le, if one of the items you ate contained cheese:
	Item	How Item Is Related To Soil
1	Cheese	Cheese is made from milk which comes from
		cows, who eat grasses that grow in soil.
2.		
3		
J		





Visit www.nacdnet.org/general-resources/stewardship-andeducation-materials/2019-life-in-the-soil-dig-deeper and www.soils4teachers.org for additional education materials.

Plant It!

Prevent soil erosion by planting trees, grass, flowers, herbs and edible vegetation. The fertile layer of topsoil is actually a thin layer.

Planting vegetation helps prevent both wind and water erosion.

Rotate It!

Rotating the crops grown in the same field, for example a grain versus a bean, will increase the fertility of the soil as well as increase yields.



Organisms living in soil break down organic material, such as leaves, that plants need for growth and help aerate the soil. Avoid excessive use of fertilizers and pesticides as they can destroy beneficial organisms like earthworms.



A 2-4 inch layer of mulch can help conserve moisture, control weeds, and even help cool the soil in extreme temperatures.



CONSERVATION

Composting is a great way to recycle paper, leaves, lawn clippings and vegetable scraps. Compost enriches soil with nutrients, improves soil texture and encourages better water retention by soil. Composting is easy and doesn't take much space.

Unscramble The Tiles

and put them in their proper order to discover an important message about soil.

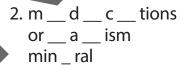
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Read **Healthy Life in the Soil = Healthy Life from the Soil** on the other side and then fill in the blanks to complete each word. Use the words to fill in the puzzle. The word(s) in each numbered group start or end on the same number in the puzzle. Words can read in all directions: forward, backward, up, down or diagonally. Words may overlap so that some letters can be used more than once. Number 10 has been done for you as an example.

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