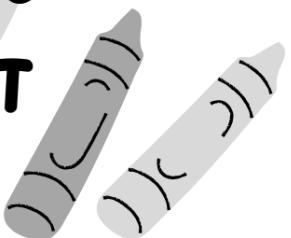


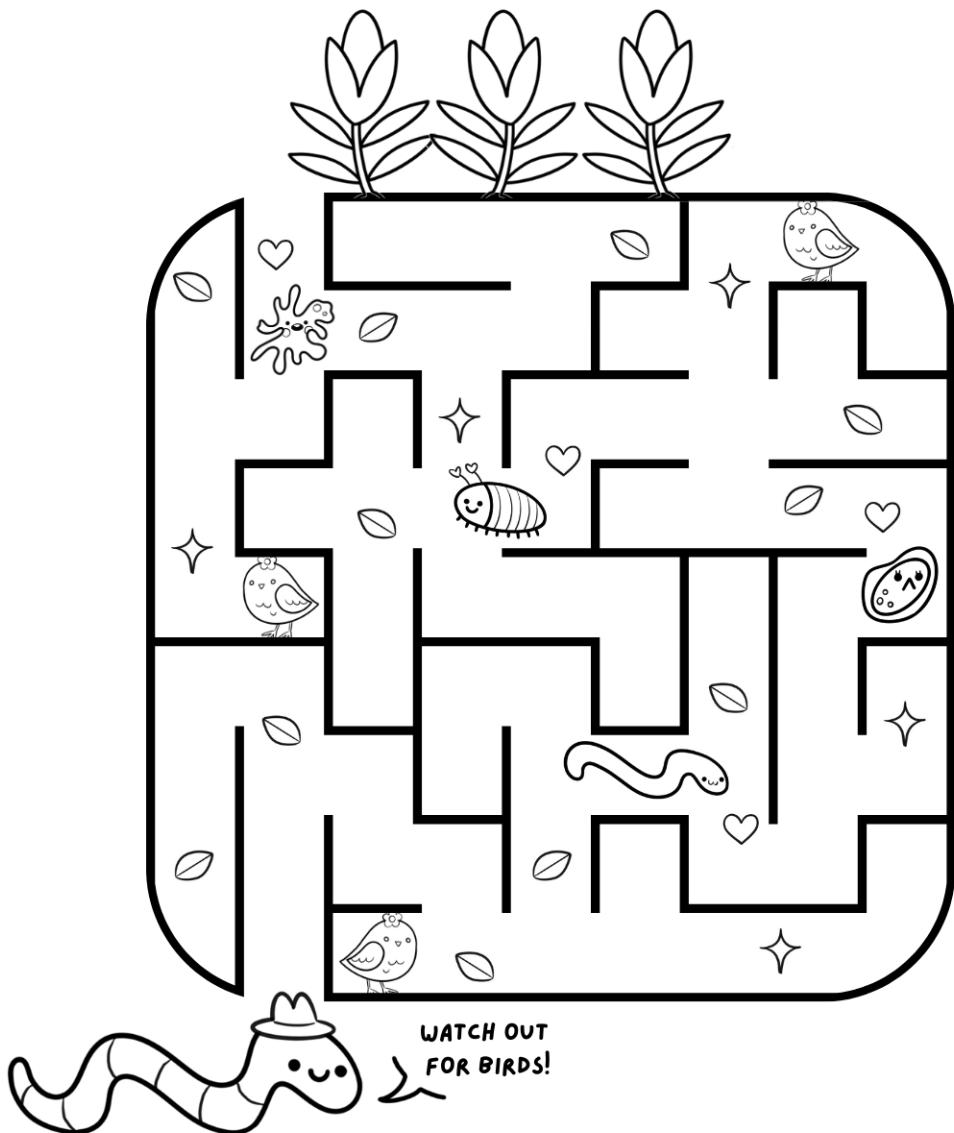
SOIL HEALTH

1ST-3RD COLORING & ACTIVITIES BOOKLET



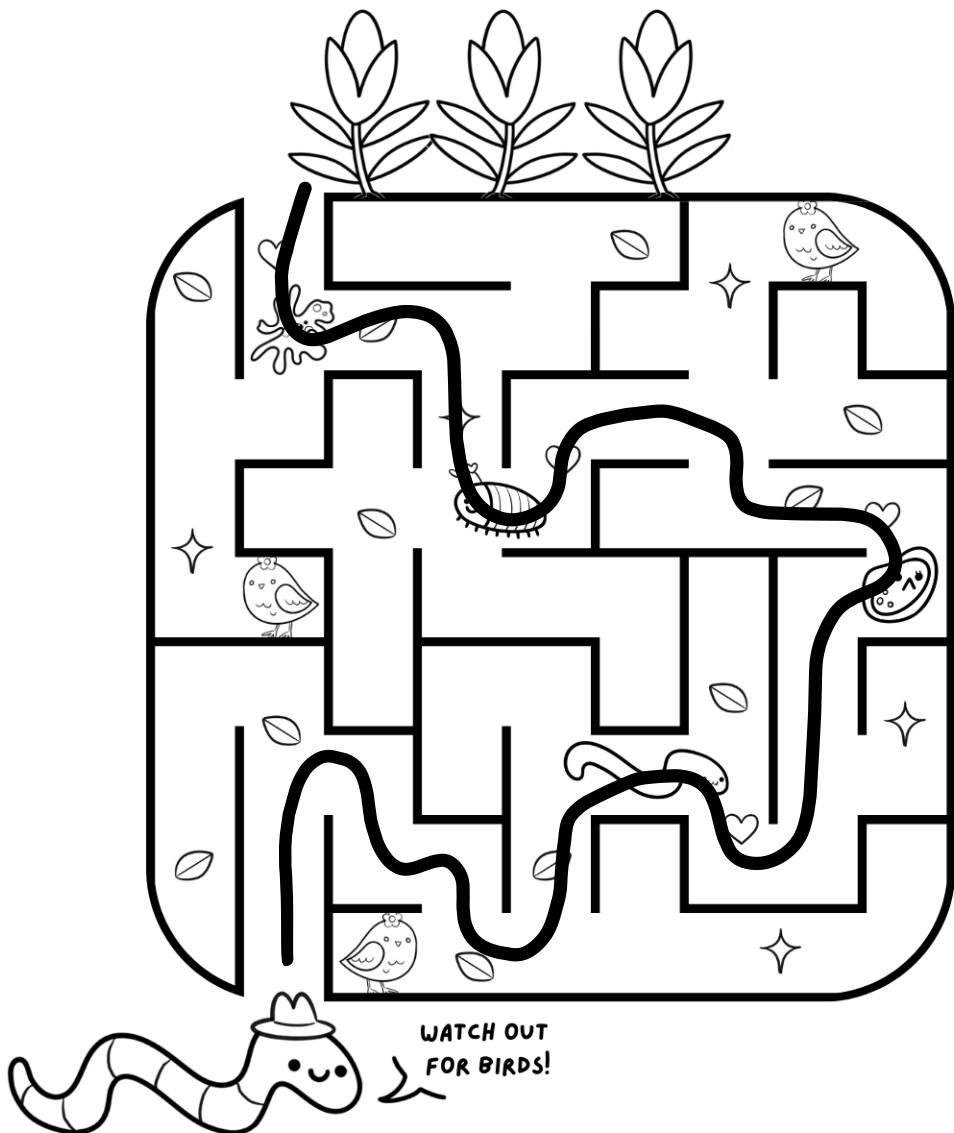
SOIL LIFE MAZE PUZZLE

CAN YOU HELP THE EARTHWORM FIND HER
FRIENDS & REACH THE CROPS SAFELY?



SOIL LIFE MAZE PUZZLE

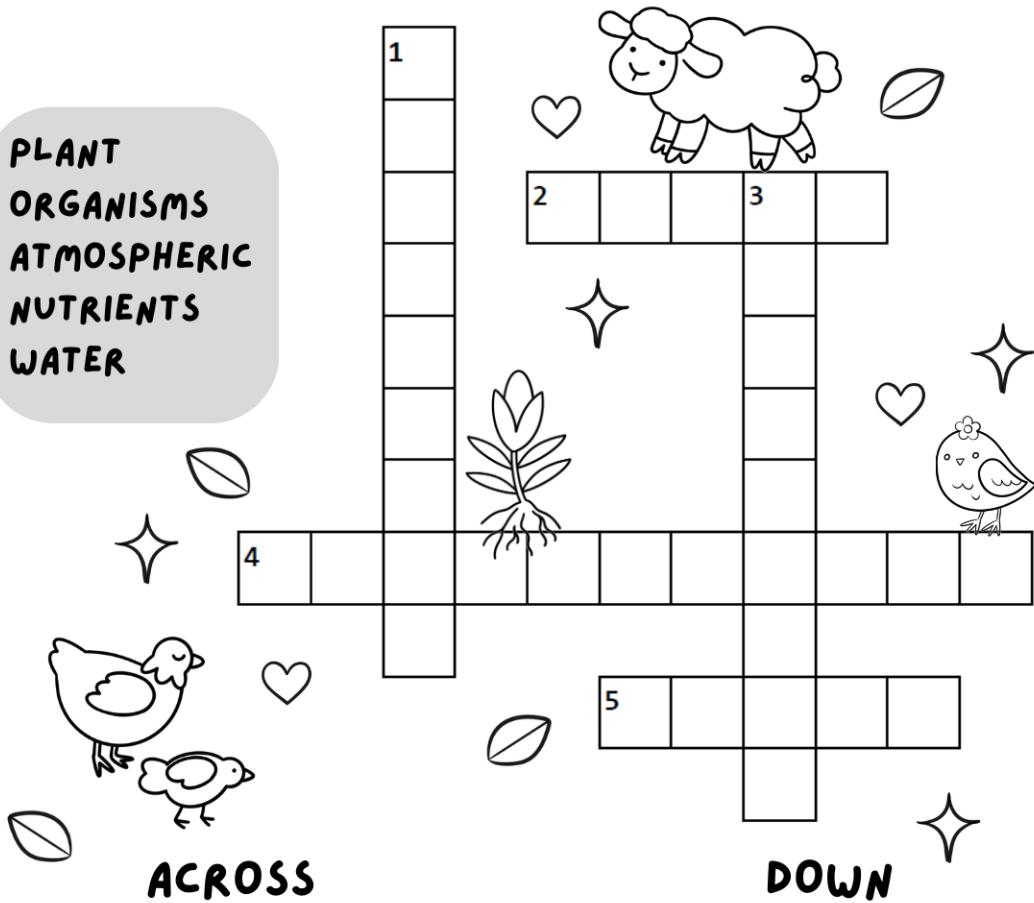
ANSWER KEY



SOIL HEALTH FUNCTIONS

CROSSWORD PUZZLE

PLANT
ORGANISMS
ATMOSPHERIC
NUTRIENTS
WATER



ACROSS

DOWN

2

Sustains _____ life

4

Buffers _____ pollutants

5

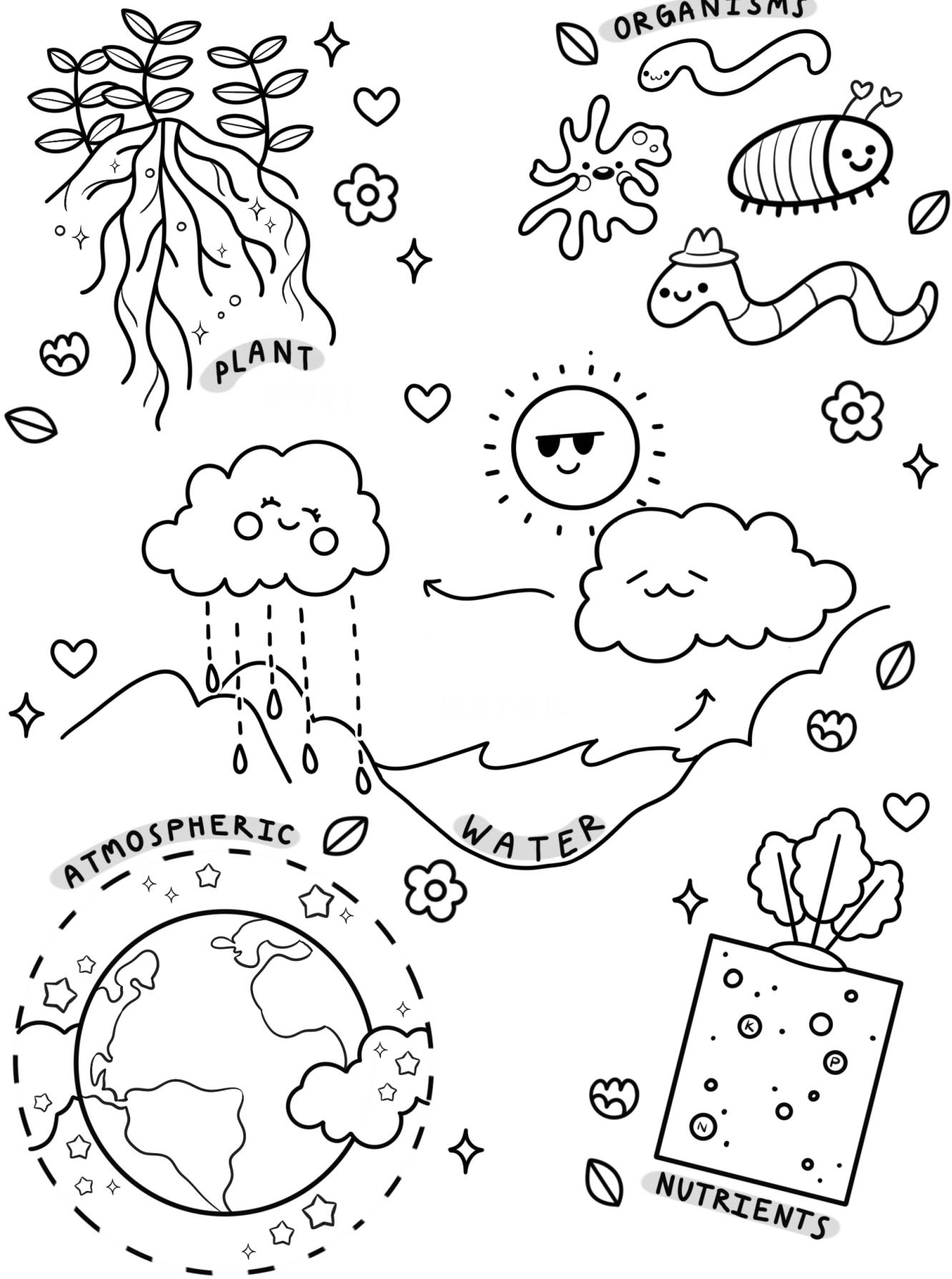
Filters and cleans _____

1

Sustains soil _____

3

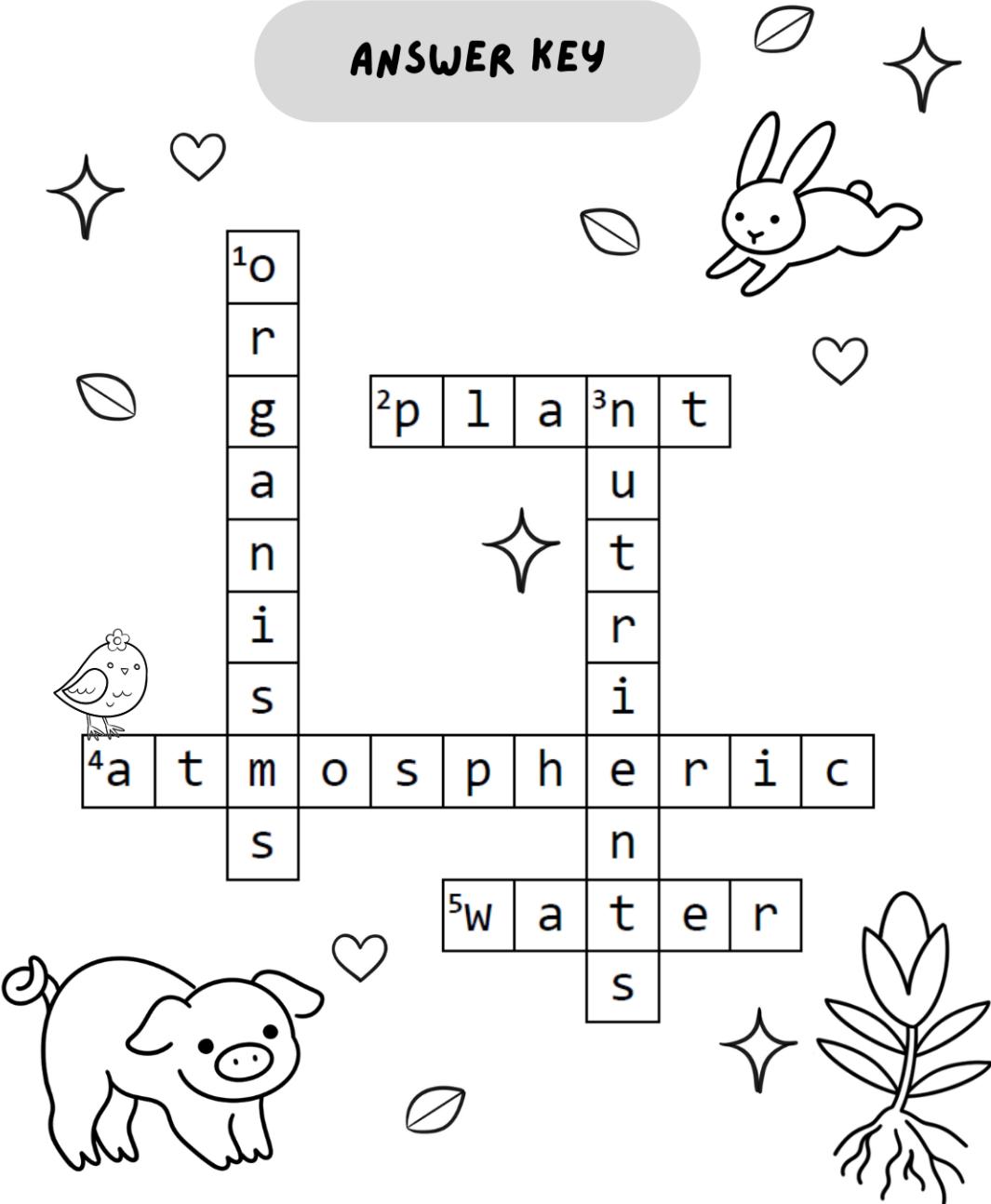
Stores and cycles _____



SOIL HEALTH FUNCTIONS

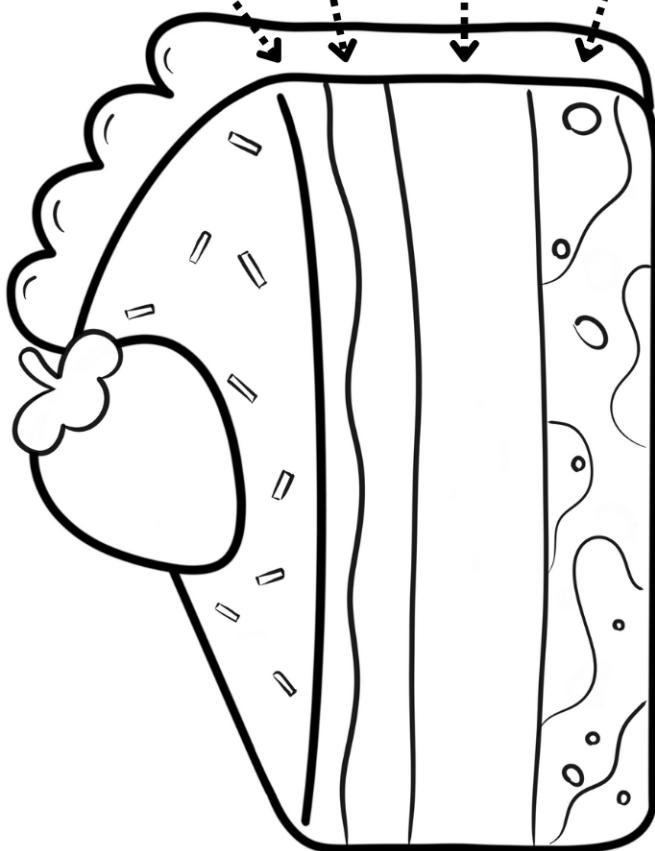
CROSSWORD PUZZLE

ANSWER KEY



SOIL LAYERS AS CAKE

SOILS FORM LAYERS LIKE CAKE. THESE LAYERS ARE CALLED HORIZONS.



The **O horizon** is like a layer of dark chocolate frosting with sprinkles.

The **A horizon** is like a layer of dark chocolate cake.

The **B horizon** is like a layer of sticky chocolate fudge.

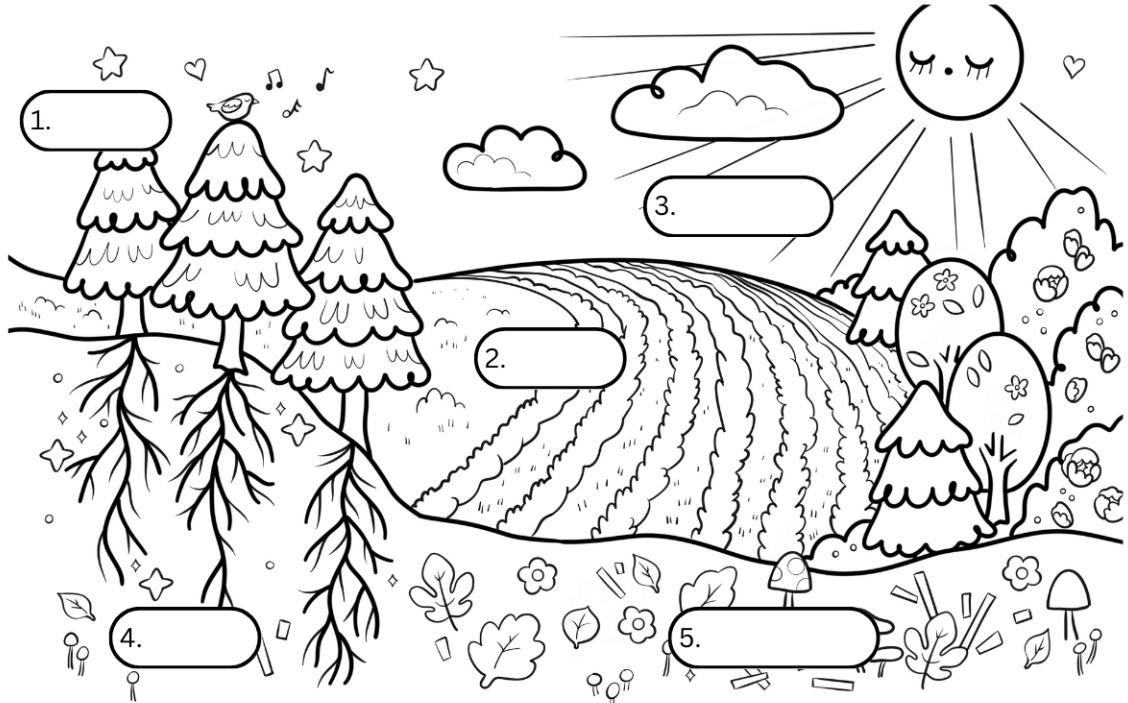
The **C horizon** is like a layer of chocolate-vanilla marble cake with walnuts and almonds.

SOIL & CARBON

LABEL THE PICTURES WITH THE LISTED WORDS

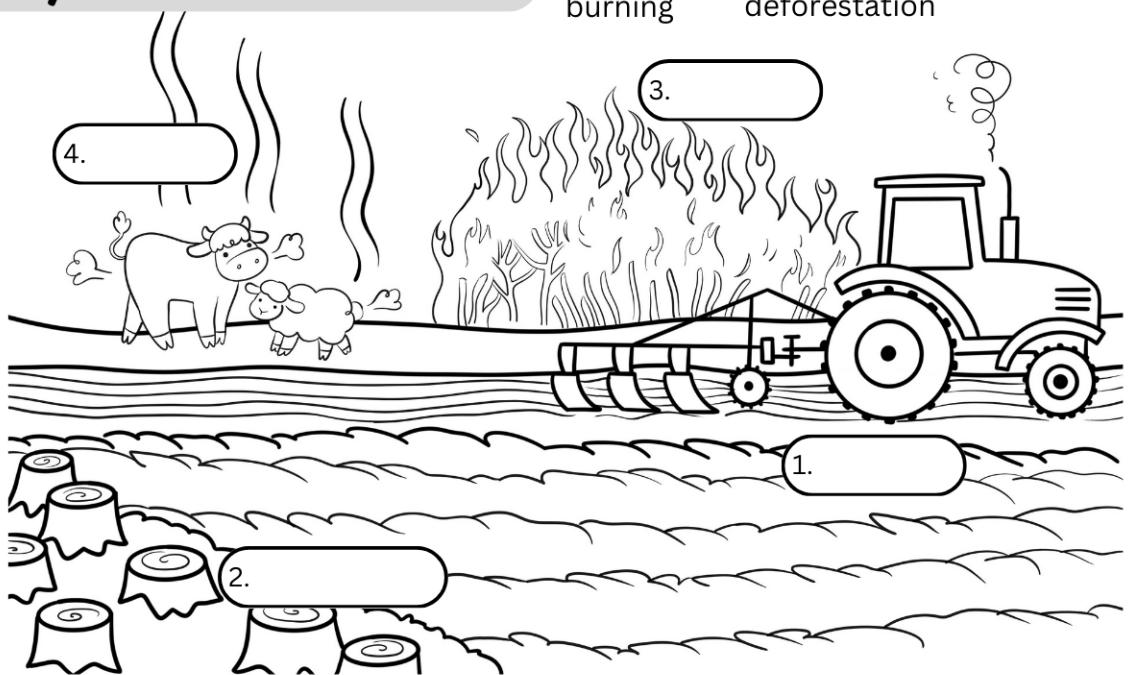
Ways we store carbon:

trees
roots
no-till
healthy air
organic matter



Ways we release carbon:

livestock
burning
plowing
deforestation



THINGS THAT DON'T BELONG

CIRCLE THE WORD THAT DOESN'T BELONG IN EACH GROUP

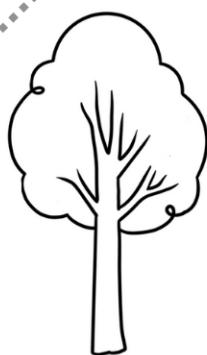
Bee
Cow
Butterfly
Flower



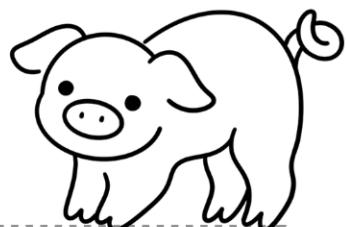
Horse
Sun
Pig
Duck



Sand
Clay
Silt
Leaf



Grape
Water
Earth
Wind



SOIL, ART, & CULTURE

WORD SEARCH

M	E	T	W	N	T	R	C
B	U	R	E	E	S	I	O
C	F	D	V	A	R	E	D
L	Z	M	C	O	H	H	E
A	O	O	W	L	C	A	T
Y	R	E	T	T	O	P	I
H	O	S	Y	N	O	T	R
E	P	U	E	K	A	M	H



MUDCLOTH

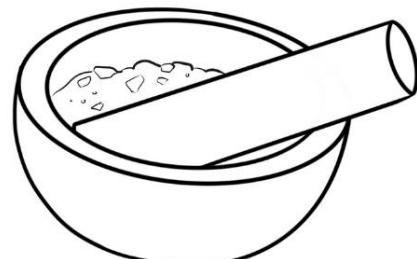
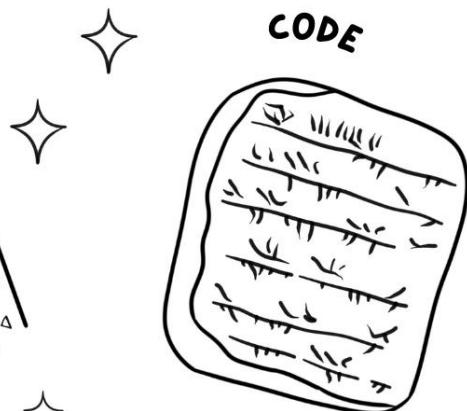
POTTERY

CLAY

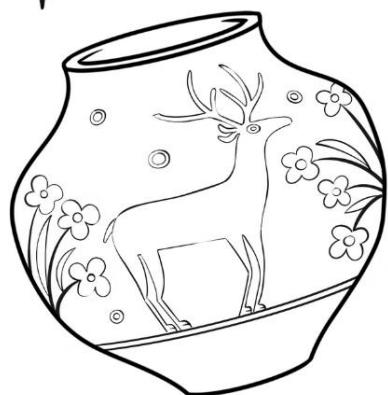
OCHRE

CODE

MAKEUP



OCHRE



POTTERY



SOIL, ART, & CULTURE

WORD SEARCH



MUDCLOTH

POTTERY

CLAY

OCHRE

CODE

MAKEUP

THE THREE SISTERS

A SPECIAL NATIVE AMERICAN CROPPING SYSTEM
FOR A STRONG & HAPPY GARDEN



Corn

- *selu* in the Cherokee language
- grows tall and gives the beans a place to climb to reach the sunlight



Beans

- *iya* in the Cherokee language
- helps the soil stay healthy by putting nutrients back into it



Squash

- *tuya* in the Cherokee language
- spreads out big leaves to cover the ground, which keeps the soil moist and stops weeds from growing



EARTH'S "SPHERES"

WORD SEARCH

G	E	H	W	N	T	P	S
B	U	R	Y	E	B	I	O
C	F	M	V	D	R	E	D
L	T	M	C	E	R	H	E
A	O	O	W	L	C	O	O
T	R	E	T	T	E	P	D
H	O	G	Y	N	O	T	E
S	P	H	E	R	E	M	P



PEDO

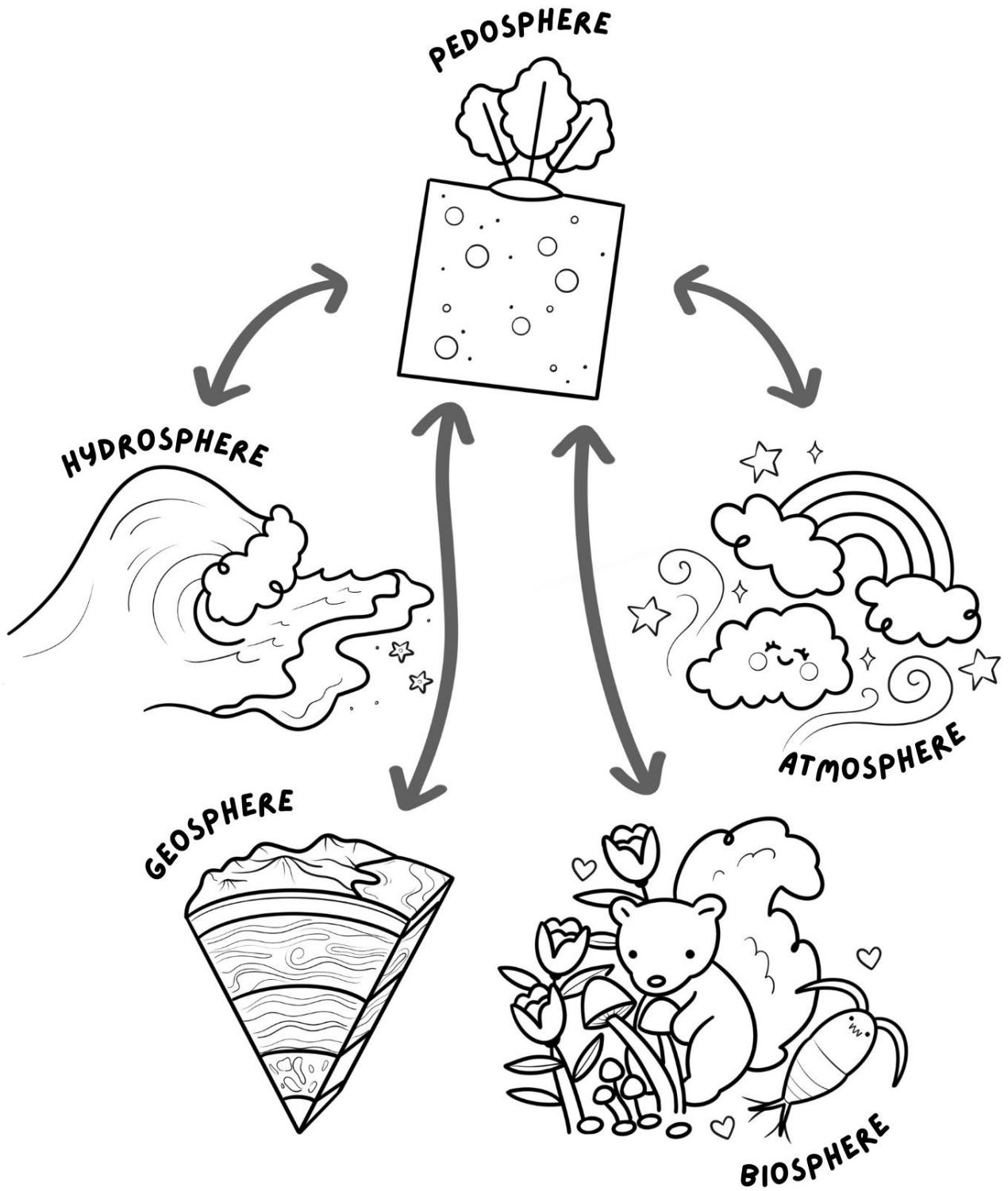
ATMO

BIO

GEO

HYDRO

SPHERE



EARTH'S "SPHERES"

WORD SEARCH



PEDO

ATMO

BIO

GEO

HYDRO

SPHERE

POLLINATOR GARDEN

LABEL THE PARTS OF THE GARDEN WITH THE MATCHING TYPE
BASED ON THE CHART BELOW

Type

Short Native Flower

Medium Native
Flower

Tall Native Flower

Tall Native Grass

Puddling Area

Flat Stone

Part / Plant



