Kids At Home



SUMMER CAMP KIT

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Summer Camp

HOW TO:

1. Start by printing this pdf.
2. Create your trail book cover with your students - a standard notebook will work.
3. Set your learning tabs - glue in 4 sections.
4. Create your section badges.
5. Glue the worksheets in the trail book as you study each section.
6. Add any additional parent activities. You'll need books or apps to supplement some instruction.
7. HAVE FUN exploring and learning.
8. Once each section is complete, fill out the certificate awards. We suggest a fun activity like a cookout or campout once the camp is complete!







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SUMMER CAMP



Trail Book

CAMPER NAME:

SECTION TABS:

Print, cut out, and glue as "tabs" in your trail guide book.
Give room for notes and activity pages between
each activity section.





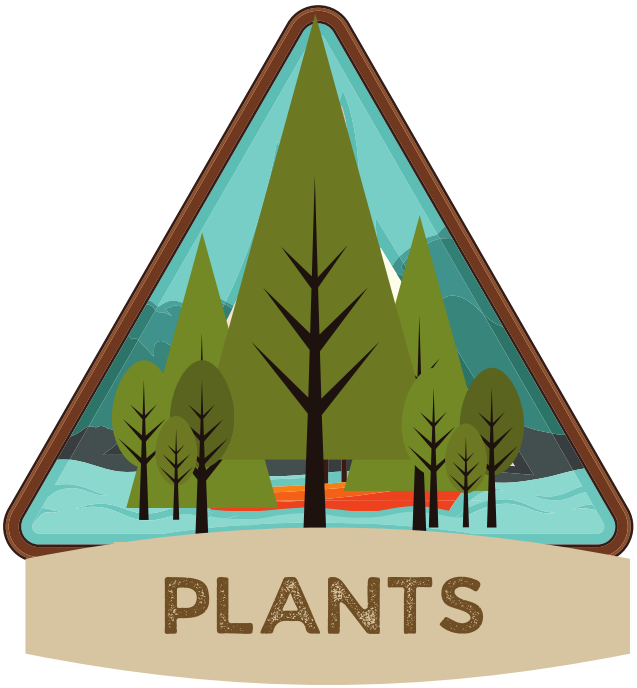




SECTION BADGES

Print on heavy card stock, cut out, and glue a pin on the back or thread onto a cord.









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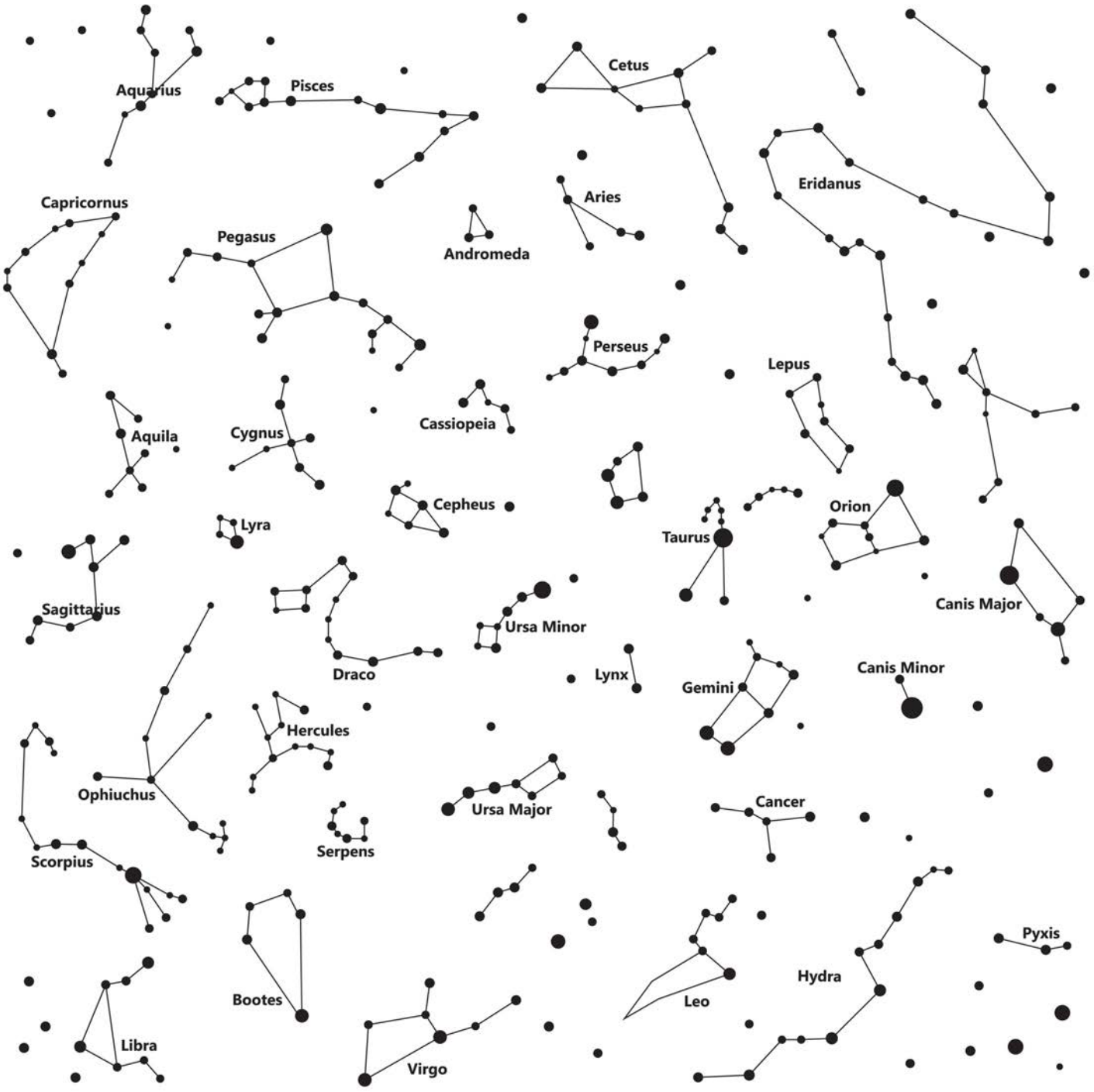
Let's Study...

THE STARS



We love to use the NASA app to view the stars at night. Hold the app up to the sky and it will show you where the constellations are in your local sky. See how many you can find!



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TRACK A CONSTELLATION

Print several sheets so that you can study several constellations.

QUESTION:

How do constellations move across the sky? While the stars remain fixed in their distances from each other, what we see on the sky changes because of the Earth's orbit around the sun.

HYPOTHESIS:

In tracking a constellation, I predict that I will see the constellation in different positions on the sky as the month goes on.

MATERIALS:

- Pen and Paper
- Worksheet
- Phone (for checking the time)

PROCEDURE:

- Pick a constellation that's visible currently
- Choose a spot for viewing and look for the constellation in the sky
- Start, go to the designated spot at the same time each night. Jot down the position of the constellation and other observations.
- After the first week/month, summarize your findings and add any irregularities (e.g. skipped a day because of bad weather)

RESULTS:

CONCLUSION:

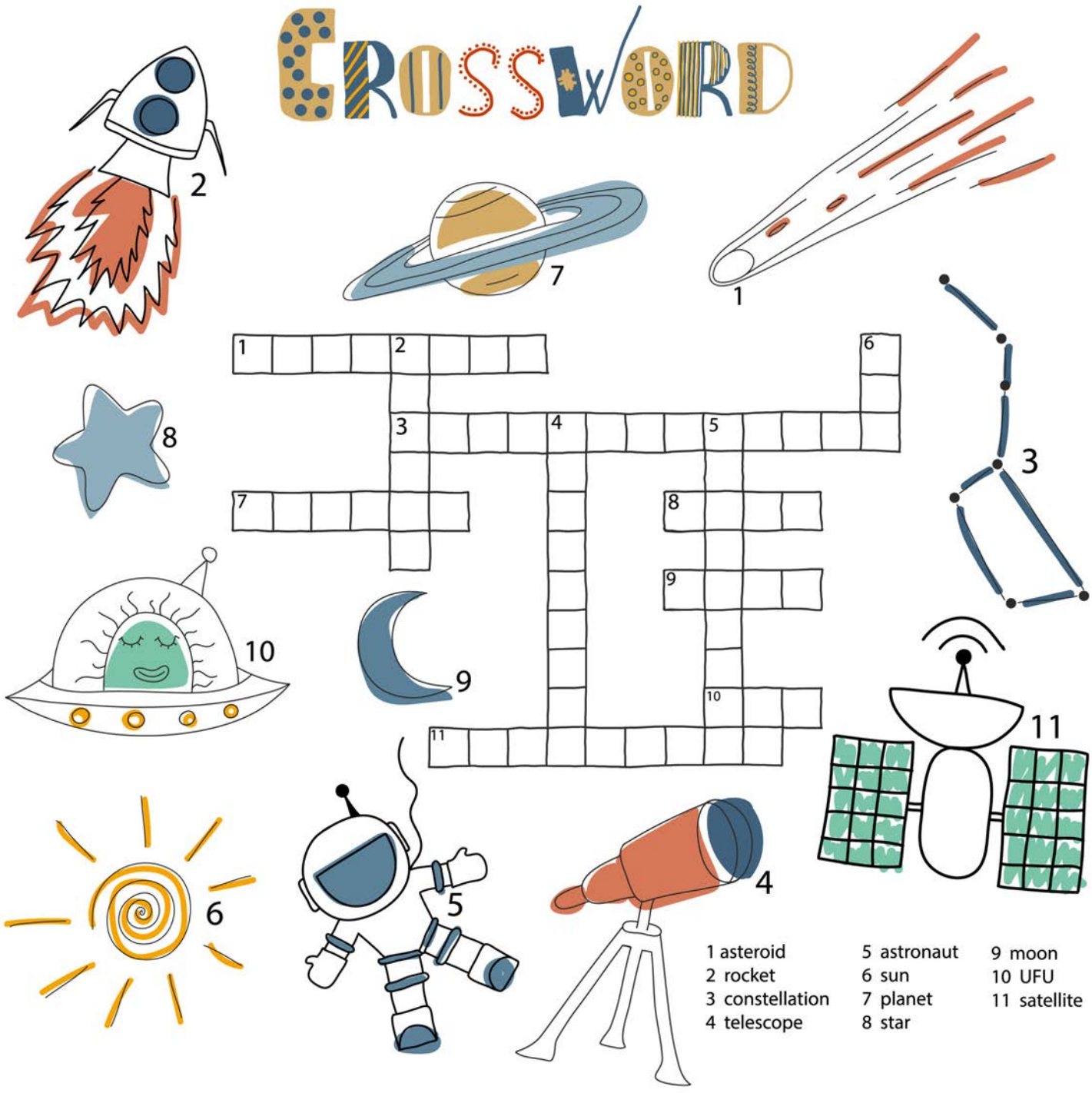
ASTRONOMY SEARCH



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

ECLIPSE MOON UNIVERSE PLANETS
ALIEN ORBIT SUN GRAVITY
STARS GALAXY COMET ROCKET
SOLAR SPACESHIP METEOR ASTRONAUT

SPACE CROSSWORD

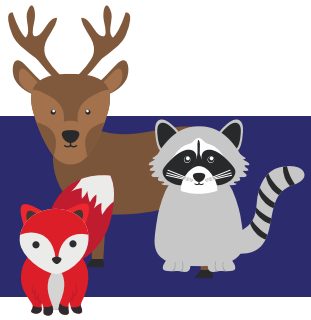


SPACE MAZE

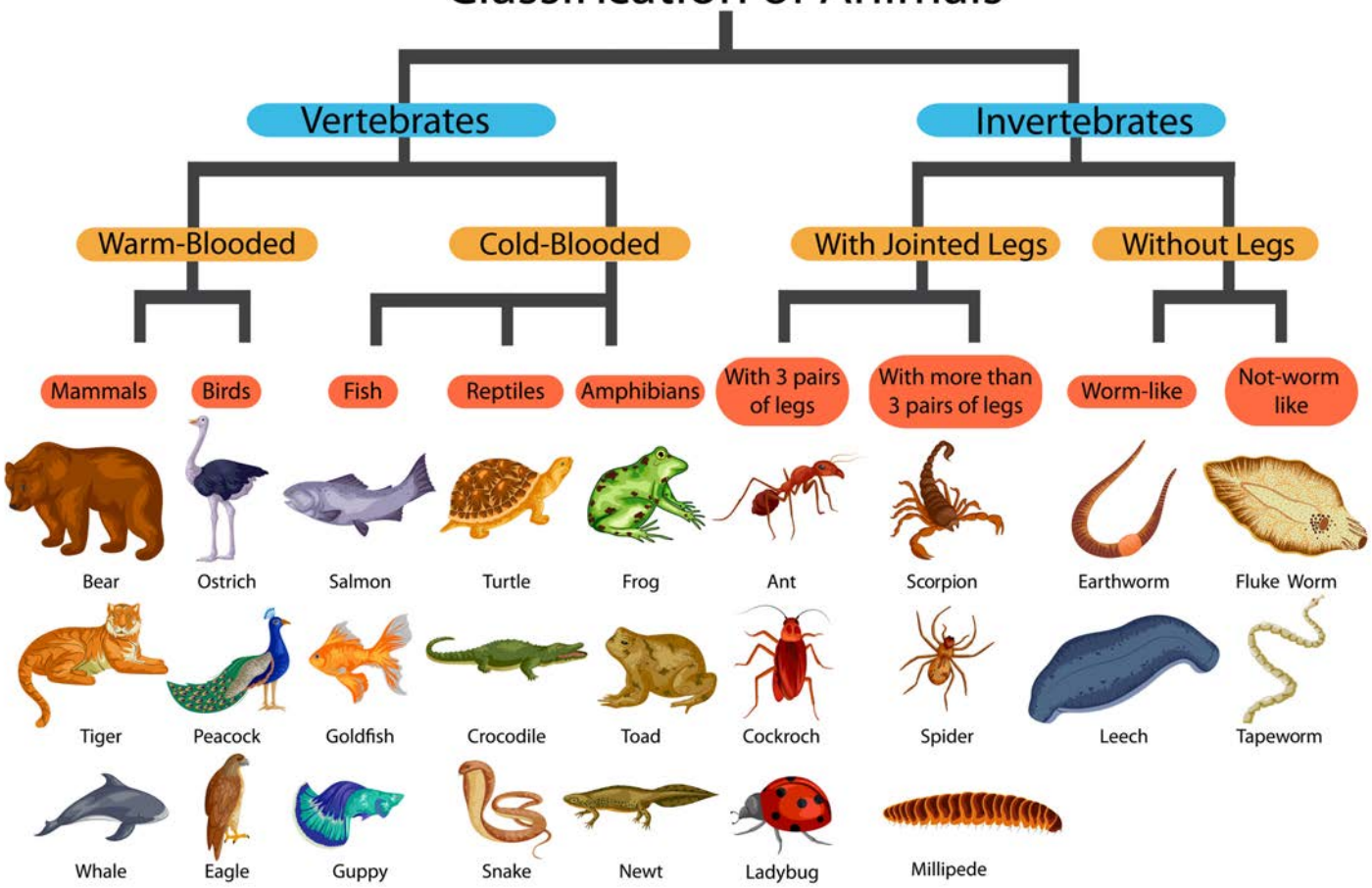


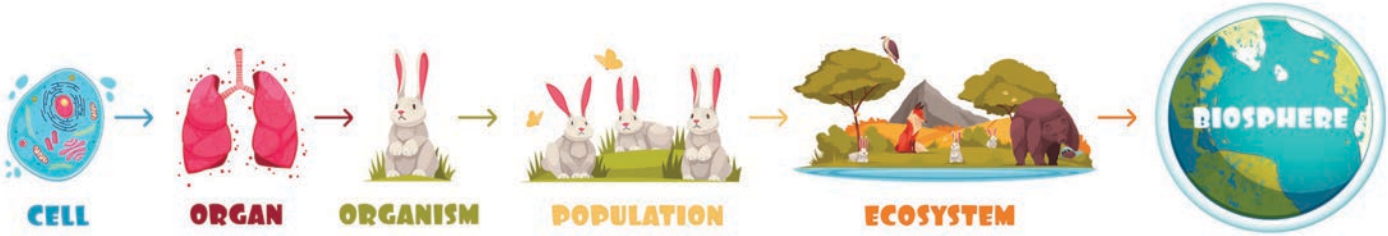
Let's Study...

ANIMALS



Classification of Animals





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Flashcards for classifying

ANIMALS



Print these flashcards on heavy card stock and use them to classify the animals on the following worksheets.

Mammals



Covered with hair - Warm blooded
Give birth to live young
Feed babies with milk
Others: elephant, tiger, dog

Fish



Moist - covered in scales - cold blooded
almost all lay eggs
breathe through gills
Over 30,000 species of fish

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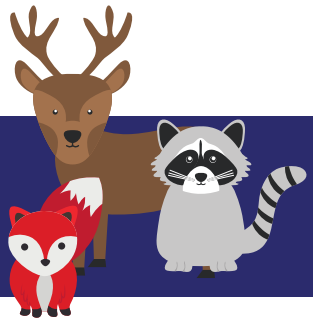
Flashcards for classifying

ANIMALS



Birds



Have feathers - Warm blooded
Lay eggs - Have two legs and wings
Over 10,000 species of birds

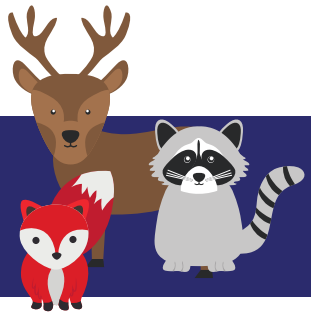
Amphibians



Moist smooth skin - cold blooded
Lay eggs - Lives on land and in water
Others: frogs, toads,

Flashcards for classifying

ANIMALS



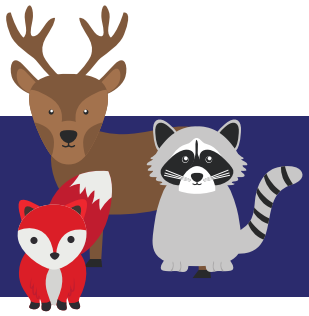
Reptiles



Dry skin covered with scales
Cold blooded - Lay eggs (some live)
Born on land, on their own
Others: lizard, snake, crocodile

Can you classify these

ANIMALS





















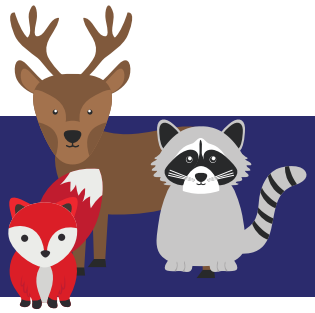


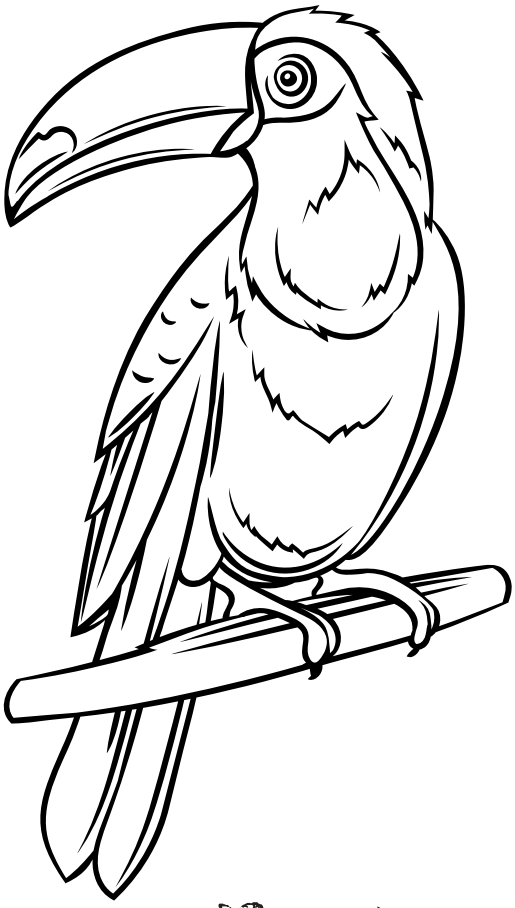




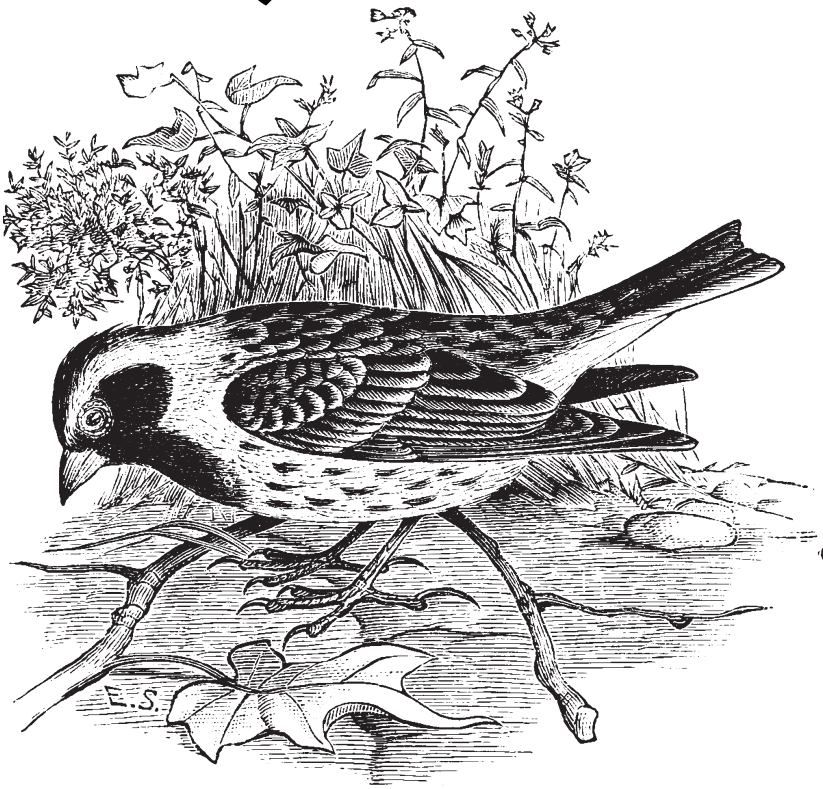
Bird Watch

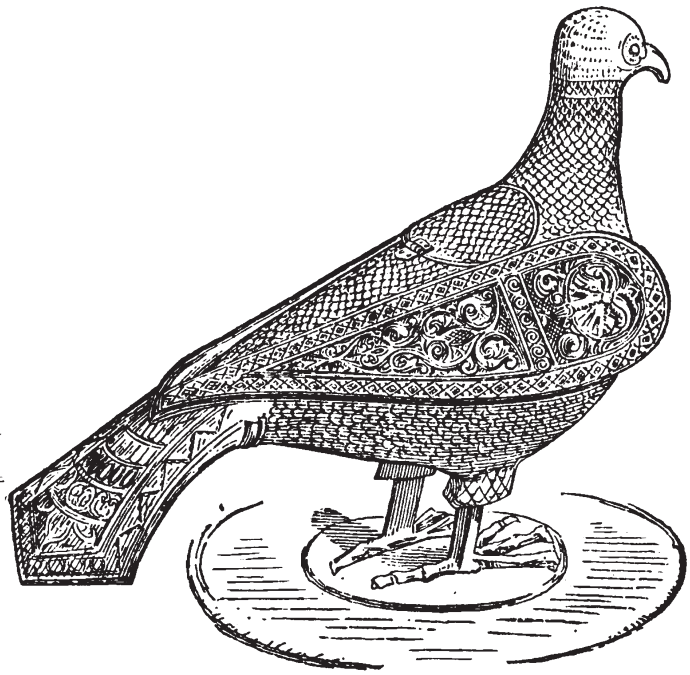
COLORING









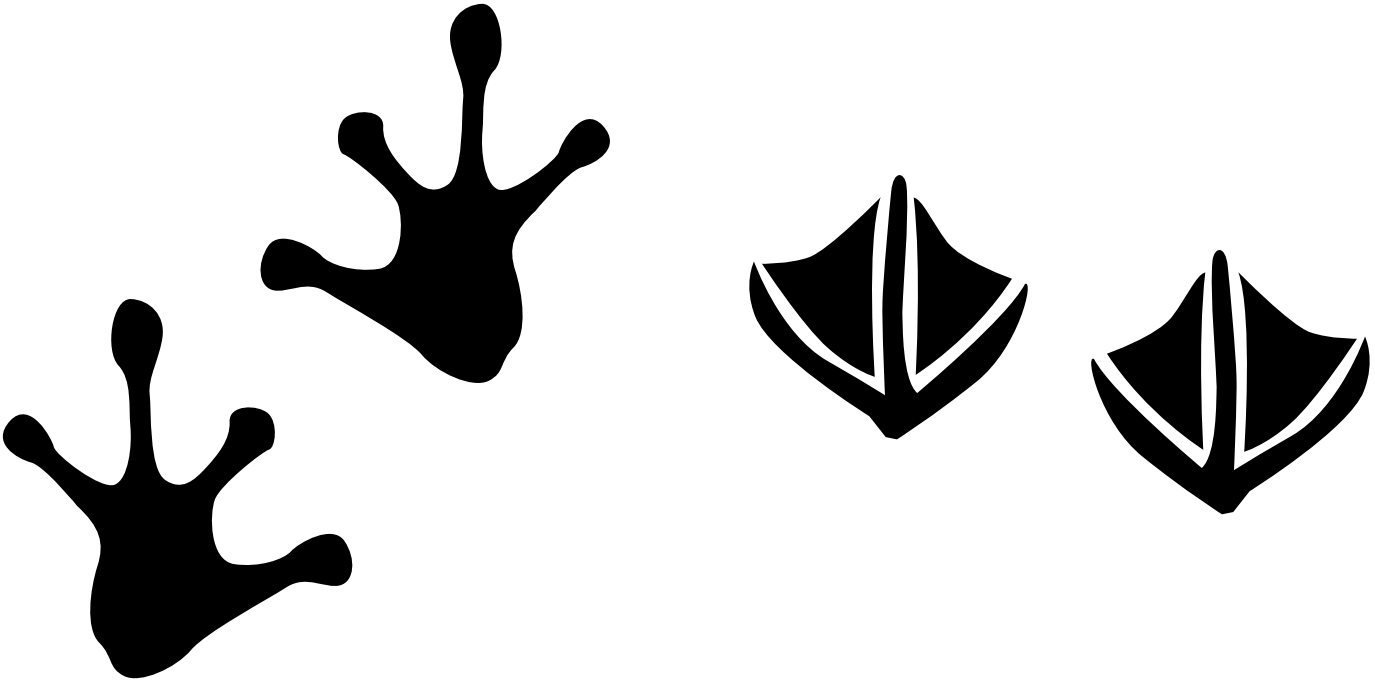


Name that

ANIMAL TRACK









TRACK AN ANIMAL



QUESTION:

What are the different types of animals in my local ecosystem?

HYPOTHESIS:

In tracking the different animals, each of them will fit into one of the classification cards I've printed.

MATERIALS:

- Pen and Paper
- Worksheet
- Phone (for checking the time)

PROCEDURE:

- Go outside and observe OR if available use a trail camera to take photos
- Study the animal and then determine which group it belongs to.

RESULTS:

CONCLUSION:

Let's Study...

PLANTS

Scavenger Hunt - Find as many of the following as you can!





























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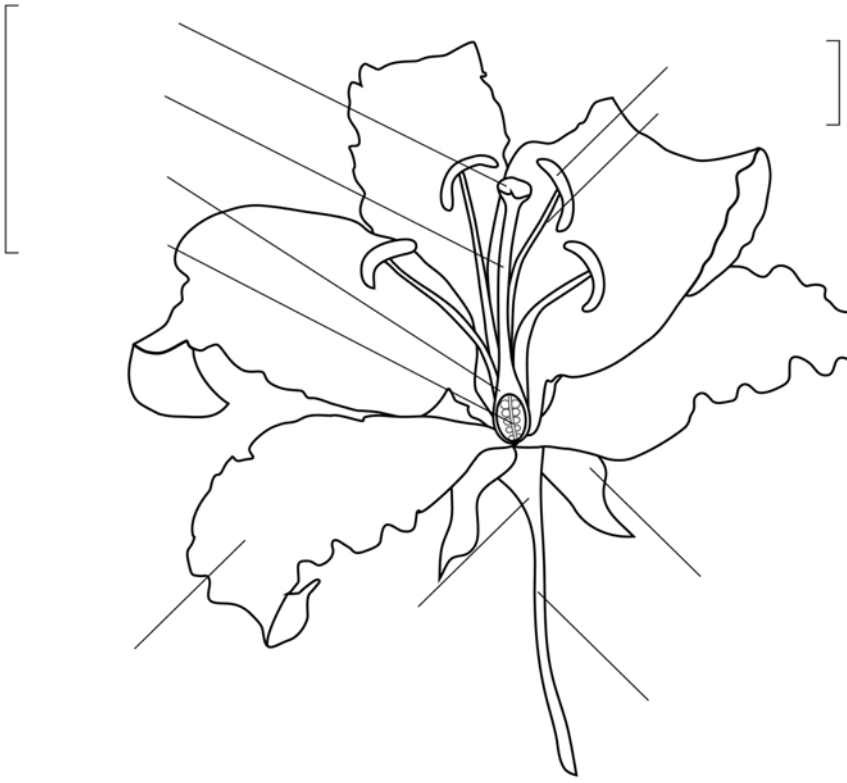
Let's Study...

PLANTS



Directions: Read a book about plants, or watch a YouTube video on the parts of a plant then fill in the labels to name each part of the plant.

Parts of the Flower



Anther	Filament	Peduncle	Petal	Pistil	Receptacle
Sepal	Stamen	Stigma	Style	Ovary	Ovule

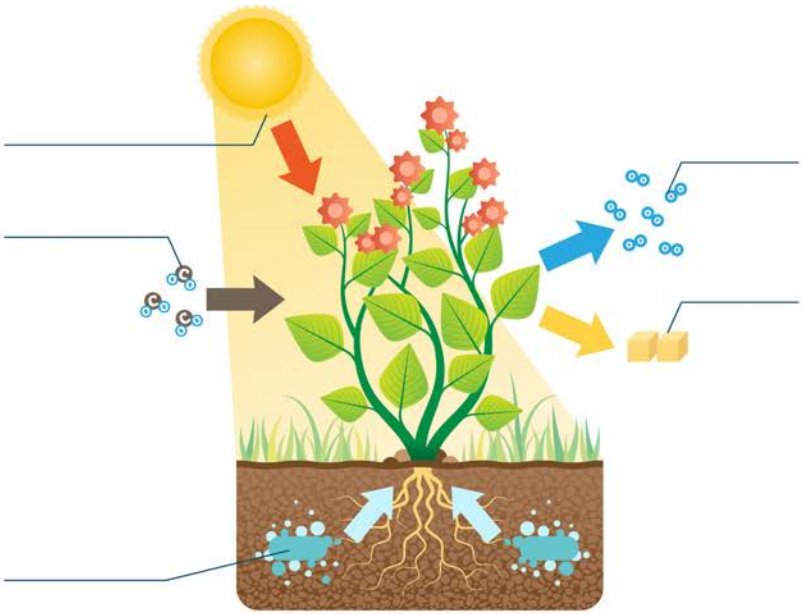
Let's Study...

PLANTS



Directions: Read a book about plants, or watch a YouTube video on photosynthesis. Then fill out the worksheet.

Photosynthesis Worksheet



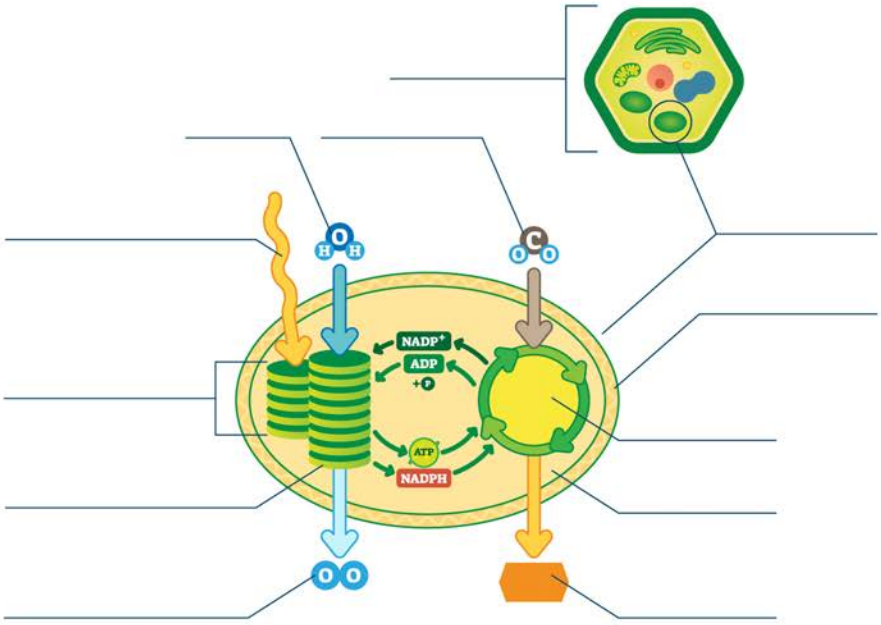
Oxygen

Sugars

Sunlight

Carbon Dioxide

Water



Carbon Dioxide

Cell Membrane

Oxygen

Plant Cell

Grana

Sugars

Thylakoid

Light

Calvin Cycle

Stroma

Chloroplast

Water

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Let's Study...

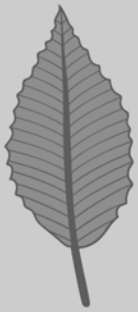
PLANTS



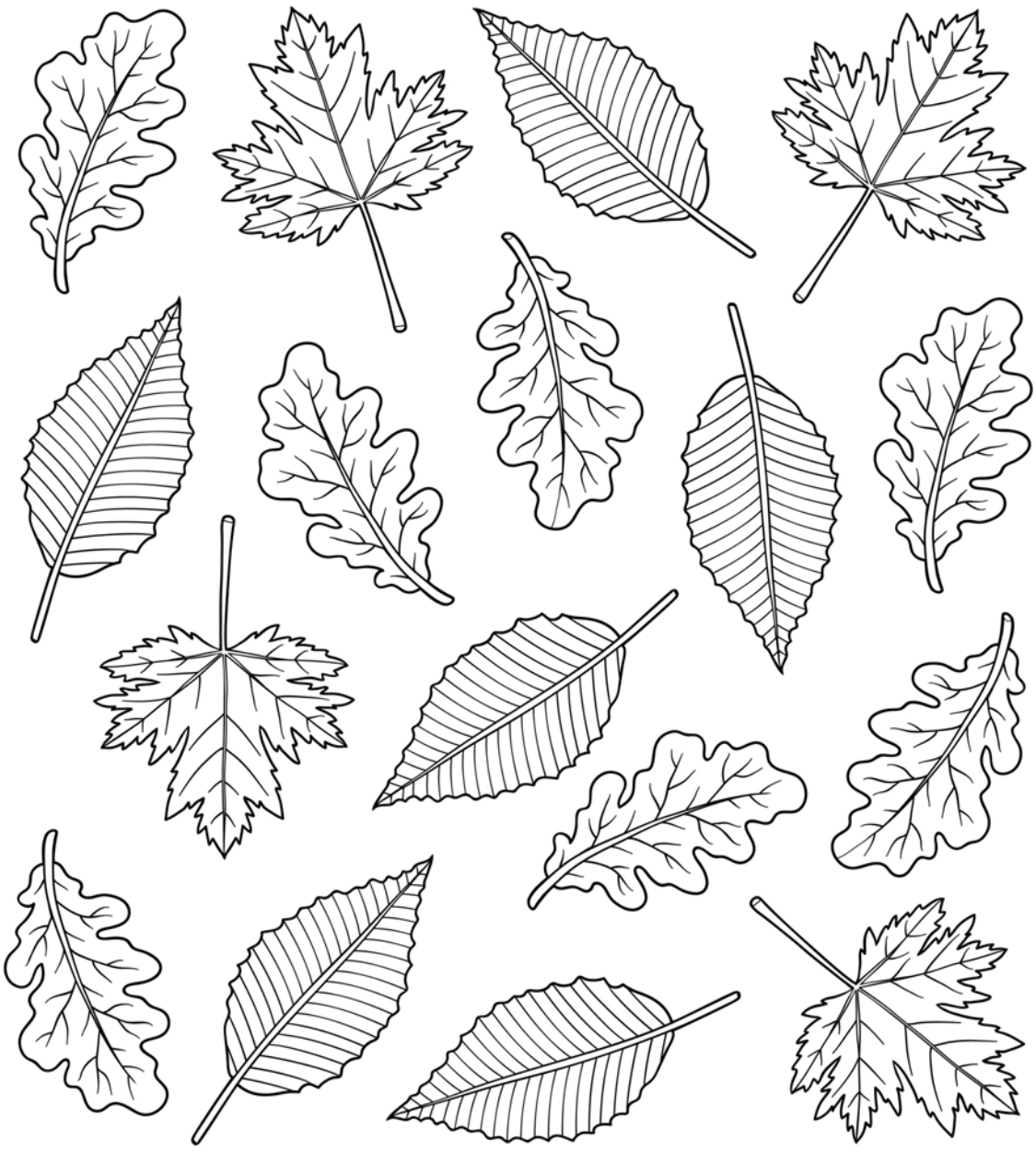
Directions: How many of each kind can you find? Extend this activity by going outdoors and identifying leaf shapes.

HOW MANY?









Let's Study...

PLANTS



Locate as many different kinds of trees as you can, and collect a leaf from each.



Birch



Poplar



Elm



Chestnut



Pine



Spruce

DIFFERENT KINDS OF TREES



Willow



Maple



Cedar



Oak



Linden

Let's Study...

PLANTS

Herbs

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

Find all the words from the word list (ignore spaces and dashes, if any):

ANISE
BALM
BASIL
BAY
CAPERS
CAYENNE
CHARD
CORIANDER
CRESS
DILL
ENDIVE
FENNEL
MINT
MUSTARD
MYRRH
SAFFRON
THYME
VANILLA

This is zigzag word search puzzle. Words go left, right, up, down, not diagonally, and can bend at a right angle. There are no unused letters in the grid, every letter is used only once.

*

Grid size:
10 x 10 squares,
10 x 10 letters,
90 x 90 mm.

Square size:
9 x 9 mm.

ANSWER:



Let's Study...

PLANTS



Create your own masterpiece. Find a leaf and grab two sheets of waxed paper. Lay the leaf on one sheet of waxed paper and then shave a few colors of crayon around the edges. Lay the other sheet of waxed paper on top and have an adult help you iron them together. Use a thin piece of fabric to cover the paper to protect the iron.



You can also take your leaves and lay them under your paper and use a crayon to rub over them. It makes a beautiful picture and you can really see the veins in the leaf.



Try growing your own plants. Use a pot with good soil and choose some quick germinating seeds like zinnia or small sunflowers. Track your plant growth in your trail book.

Let's Study...

PLANTS



OUTDOOR SKILLS WITH PLANTS

1. If you ever find yourself in the woods and not sure of which direction you need to head, look for moss on trees. The moss usually grows on the north side of trees.
2. To make a shelter in the woods, a good choice is the use of conifers. These are typically evergreen and will have foliage that will be good for a shelter.
3. To make a quick bed, look for cattails and bulrushes. They have air pockets inside of parts of this plant and can be used in layered bundles to make a comfortable cushion.
4. There are many types of edible plants, and you'll learn more about these in your outdoor experience section. Never eat a plant that you are not 100% sure what it is. Water should always be your first concern. Humans can live for up to three weeks without food, but less than a few days without water. Here is a list of the most common plants you can eat:

lamb's quarter's (Chenopodium album)
amaranth (Amaranthus ssp.)
dandelion (Taraxacum officinale)
chickweed (Stellaria media)
chicory (Cichorium intybus)
garlic mustard (Alliaria petiolata)
hairy cat's ear (Hypochaeris radicata)
purslane (Portulaca oleracea)

Edible flowers:
violets (Viola spp.)
dandelion (Taraxacum officinale)
yucca (Yucca spp.)
roses (Rosa spp.)
raspberry and blackberry flowers (Rubus spp.)

Let's Study...

OUTDOOR SKILLS



This section requires adult supervision.

BUILD YOUR OWN SURVIVAL KIT!



1. Start with a backpack, fanny pack, or another type of sack to hold your supplies.
2. Find a compass, learn how to use it, then add it to your bag.
3. Gather fire-starting tools (check with your parents to make sure it's ok). Matches, flint, lighter, magnifying glasses work well.
4. Find an emergency blanket or a small lightweight blanket that will fit in your bag.
5. A water filter. Water filter straws are perfect for this.
6. A multi-purpose tool.
7. A small flashlight.
8. Small resealable plastic bags.

OUTDOOR TIP: If you are ever lost in the woods, remember to find these first in this order: shelter, water, fire, and food!

Let's Study...

OUTDOOR SKILLS



LET'S USE A COMPASS!



1. Start by demonstrating the four cardinal points on a compass.
2. Show the mid-point directions like north-east and south-west.
3. Demonstrate how to use a map and the compass. Aligning the north on the compass to the north on the map.
4. Create a map of your property and teach them how to triangulate their location.
5. Then give them instructions like, "Travel north 10 steps, west 5 steps, and south 3 steps" to a specified location.
6. Create a treasure hunt. Place a prize at a location and give the kids directions that challenge their new skills!

Let's Study...

OUTDOOR SKILLS



WATER PURIFICATION



1. Start by finding an outdoor water source and teaching kids about "why" it is so important to filter and boil water. Also, teach why they need to find water quickly if they are ever lost.
2. You'll need a two-liter plastic bottle, a canteen, a small pot, and a spare tee shirt or portion of one. (alternate water filter straw or iodide tablets)
3. Collect water from a natural source and use the t-shirt to strain out particles and debris.
4. Use your small pot and fire-building skills to boil the water. Water must boil for 1-minute minimum. Take a drink!
5. Talk about other ways to filter water such as iodide tablets or even using a filter straw.

Let's Study...

OUTDOOR SKILLS



LET'S BUILD A FIRE



1. Start by finding a clearing and making sure that the area is free of grass, leaves, or twigs.
2. Have the kids look up and make sure there are no overhead trees.
3. Fires spots should always be "downwind" of your campsite and should be protected from winds.
4. Find several large rocks to form a circle or fire ring and dig out the dirt in the middle to form a pit.
5. Gather fuel. You will need tinder, branches of different sizes, and kindling. Show the kids examples. Tinder is light flammable objects like pinecones, needles, or dry leaves. Kindling is small twigs the size of a pencil.
6. Once they have their fuel, teach them how to construct a small teepee with the tinder in the middle and the kindling on the outside. After lighting, gradually add larger branches.
7. Now all you need is the S'mores!

Let's Study...

OUTDOOR SKILLS



EDIBLE FOREST PLANTS



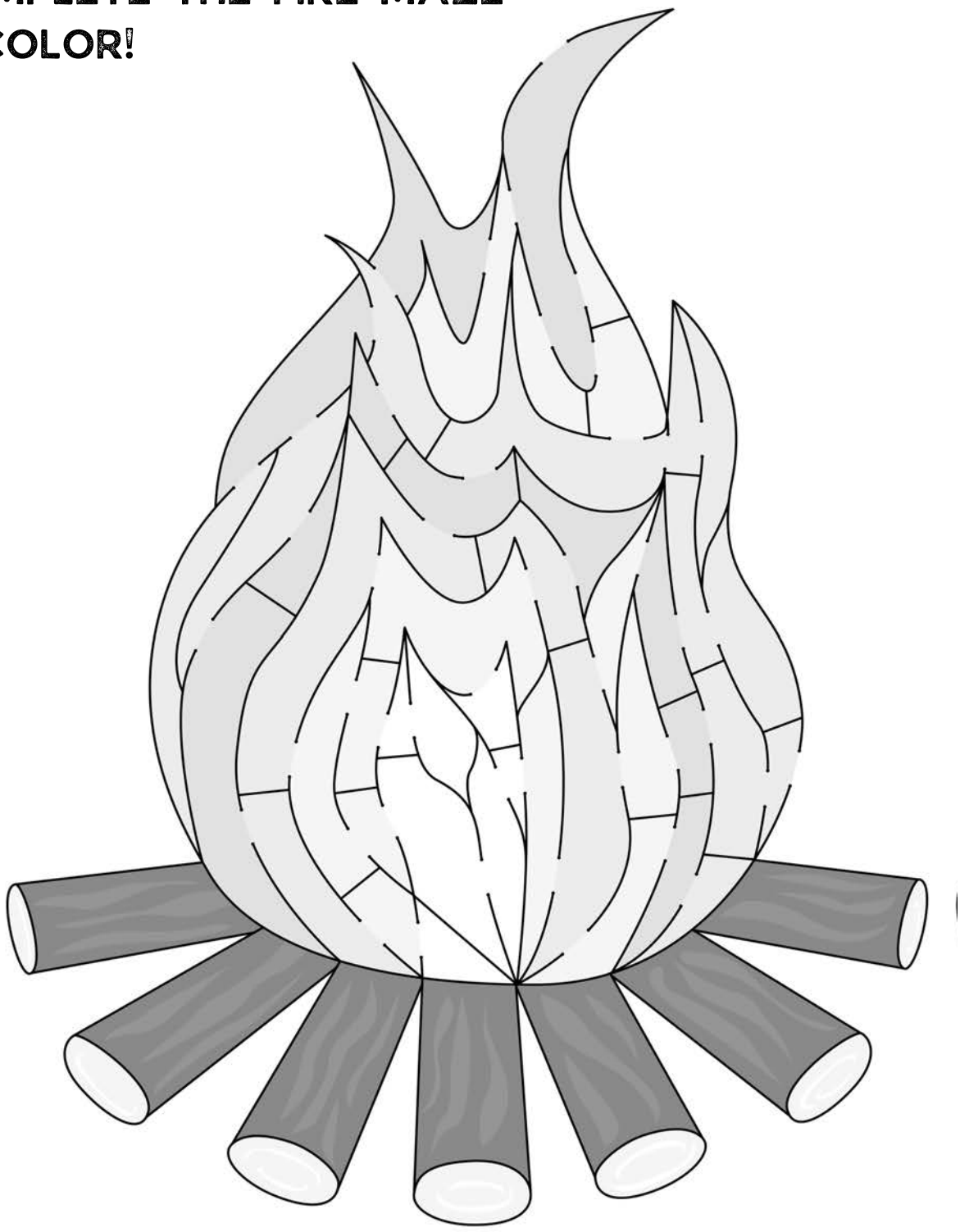
1. Each child will need an edible plant guidebook.
2. Take a nature walk together and point out and gather some edible plants in your area.
3. Parents need to double-check to make sure that the plants are indeed edible and then have a taste test!
4. Make sure you try plants, flowers, and edible berries.
5. Write down each plant name in your trail guide book and notate the taste of each. Which was your favorite?

Let's Study...

OUTDOOR SKILLS



COMPLETE THE FIRE MAZE & COLOR!



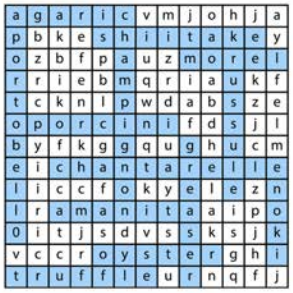
Let's Study...

OUTDOOR SKILLS



COMPLETE THE MUSHROOM PUZZLE!

Did you know that mushrooms are fungus?



WORD SEARCH PUZZLE

champignon

truffle

oyster

greaser

a	g	a	r	i	c	v	m	j	o	h	j	a
p	b	k	e	s	h	i	i	t	a	k	e	y
o	z	b	f	p	a	u	z	m	o	r	e	l
r	r	i	e	b	m	q	r	i	a	u	k	f
t	c	k	n	l	p	w	d	a	b	s	z	e
o	p	o	r	c	i	n	i	f	d	s	j	l
b	y	f	k	g	g	q	u	g	h	u	c	m
e	i	c	h	a	n	t	a	r	e	l	l	e
l	i	c	c	f	o	k	y	e	l	e	z	n
l	r	a	m	a	n	i	t	a	a	i	p	o
0	i	t	j	s	d	v	s	s	k	s	j	k
v	c	c	r	o	y	s	t	e	r	g	h	i
t	r	u	f	f	l	e	u	r	n	q	f	j

agaric

enoki

russule

morel

portobello

amanita

porcini

shiitake

chantarelle

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Summer Camp



Completion of the Trail Guide Outdoor Skills Section

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