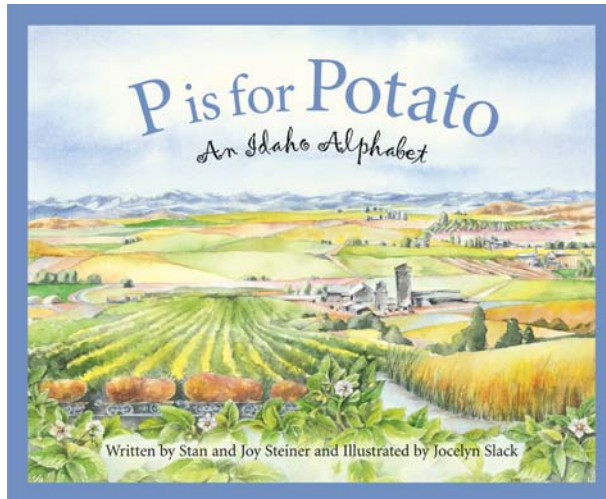


# Teacher's Guide



## **P is for Potato: An Idaho Alphabet**

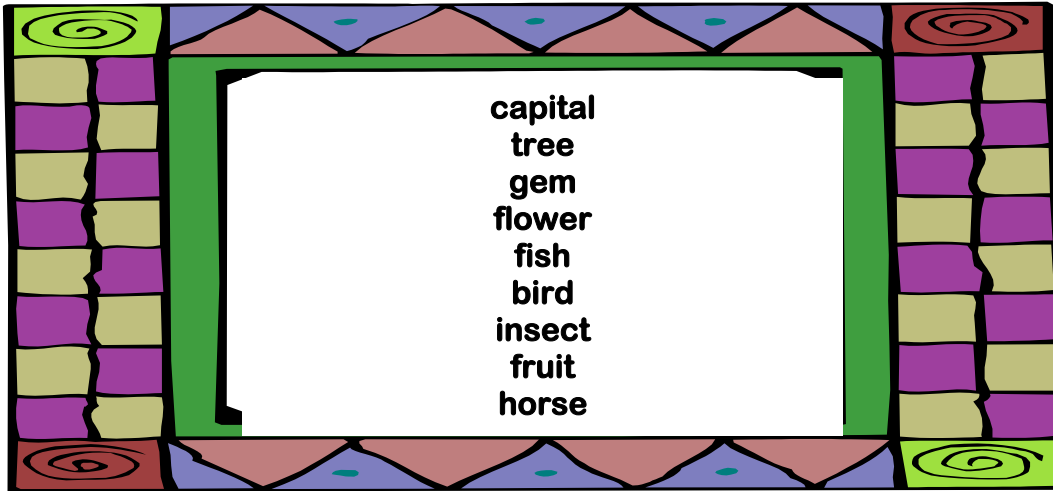
Written by: Stan and Joy Steiner  
Illustrated by: Jocelyn Slack

Guide written by Angela M.K. Smith

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# IDAHO STATE FACTS



**DIRECTIONS:** The state of Idaho has many official state symbols. Can you match the subject in the box above to the official state symbol listed below? Write the name of the subject on the line provided. Good luck!

- 1) The **western white pine** is the official state \_\_\_\_\_.
- 2) **Star garnets** are the official state \_\_\_\_\_.
- 3) The **syringa** is the official state \_\_\_\_\_.
- 4) The **huckleberry** is the official state \_\_\_\_\_.
- 5) The **monarch butterfly** is the official state \_\_\_\_\_.
- 6) **Boise** is the official state \_\_\_\_\_.
- 7) The **cutthroat trout** is the official state \_\_\_\_\_.
- 8) The **mountain bluebird** is the official state \_\_\_\_\_.
- 9) The **Appaloosa** is the official state \_\_\_\_\_.

# SEARCH AND FIND

**DIRECTIONS:** Use the book, *P is for Potato*, to help you find the pictures mentioned below. When you find the picture, read the information on the page to review all of the wonderful people, places, and things that make the state of Idaho such a wonderful state. Good luck!



bicyclist

donkey

cornucopia

owl

txistu

lamb

pine cone

syringa

monarch butterfly

huckleberry bush

computer

railroad track

paddle

television

state of Idaho

people enjoying a hot spring

Olympic Gold-medalist Picabo Street

Native American headdress



# WHO AM I?

Moses Alexander  
William Borah  
Larry EchoHawk  
Philo T. Farnsworth  
Emma Edwards Green  
Lewis and Clark  
Sacajawea  
J. R. Simplot  
Henry Spalding  
Picabo Street  
Emma Yearian



- 1) I designed the state seal of Idaho. **Who am I?**
- 2) I am a Ketchum, Idaho, native who won the 1998 Olympic gold medal for ski racing. **Who am I?**
- 3) I was the United States' first Jewish governor. **Who am I?**
- 4) I was Idaho's first presidential candidate. The highest peak in Idaho was named after me. **Who am I?**
- 5) I was a potato pioneer of sorts. During World War II I created a food dehydrating company which provided soldiers in the U.S. military with dried potatoes. **Who am I?**
- 6) We explored the West with our Corps of Discovery. **Who are we?**
- 7) I traveled with Lewis and Clark and helped by providing food, making clothing, and helping with trade during the expedition. **Who am I?**
- 8) I am a Rigby, Idaho, native known as the "Father of Television." **Who am I?**
- 9) I was once a state legislator from Idaho and known as "Sheep Queen of Idaho." **Who am I?**
- 10) I was a Presbyterian missionary who convinced the Nez Perce people to dig irrigation ditches and grow potatoes. **Who am I?**
- 11) I was the United State's first Native American attorney general. **Who am I?**

# WHERE AM I?

**DIRECTIONS:** Use the clue box below to help you figure out the location that is being described. Good luck!

Boise, Idaho  
Bruneau Sand Dunes  
Craters of the Moon  
Hells Canyon  
Mt. Borah  
Nampa, Idaho  
Oregon Trail  
Salmon River  
Snake River  
World Center for Birds of Prey

- 1) Raptors from every corner of the Earth are raised and rehabilitated here. Well-known programs to help save the California condor and peregrine falcon take place here also. Where am I?
- 2) Hold onto your paddle! I am kayaking down the longest undammed river within the borders of one state in the lower 48 states. Where am I?
- 3) Hola! I am visiting the site of Idaho's first Hispanic Cultural Center. This place recognizes Idaho's Latin American heritage. Where am I?
- 4) Pioneers traveling through Idaho to Oregon followed this hot and dusty path. Where am I?
- 5) I have a beautiful view of the highest peak in Idaho; at 12,622 feet this location was named for Idaho's first presidential candidate. Where am I?
- 6) Nature is wonderful! I am observing the deepest river gorge in North America. Where am I?
- 7) I am enjoying my day boating on this river. Fishing, observing wildlife, and exploring ancient petroglyphs on the rocks are just a few activities you can take part in here. Where am I?
- 8) As night falls, I find myself watching stars from an observatory at this location. Later, I will be getting sand out of my shoes! Where am I?
- 9) I am standing in the capitol building located in this city. Idaho's capitol building is the only one in the United States heated by geothermal energy. Where am I?
- 10) I am hiking and exploring the formations and lava tunnels at this national monument in Idaho. Where am I?

# IDAHO

**DIRECTIONS:** Use each of the following clues to help you fill in the boxes below.

- 1) The *Gem State* is the \_\_\_\_\_ of Idaho.
- 2) Most of Idaho is a dry \_\_\_\_\_.
- 3) She was a valuable member of Lewis and Clark's crew.
- 4) This fruit is the state fruit of Idaho.
- 5) The state capital of Idaho is \_\_\_\_\_.



	<b>I</b>									
	<b>D</b>									
	<b>A</b>									
	<b>H</b>									
	<b>O</b>									

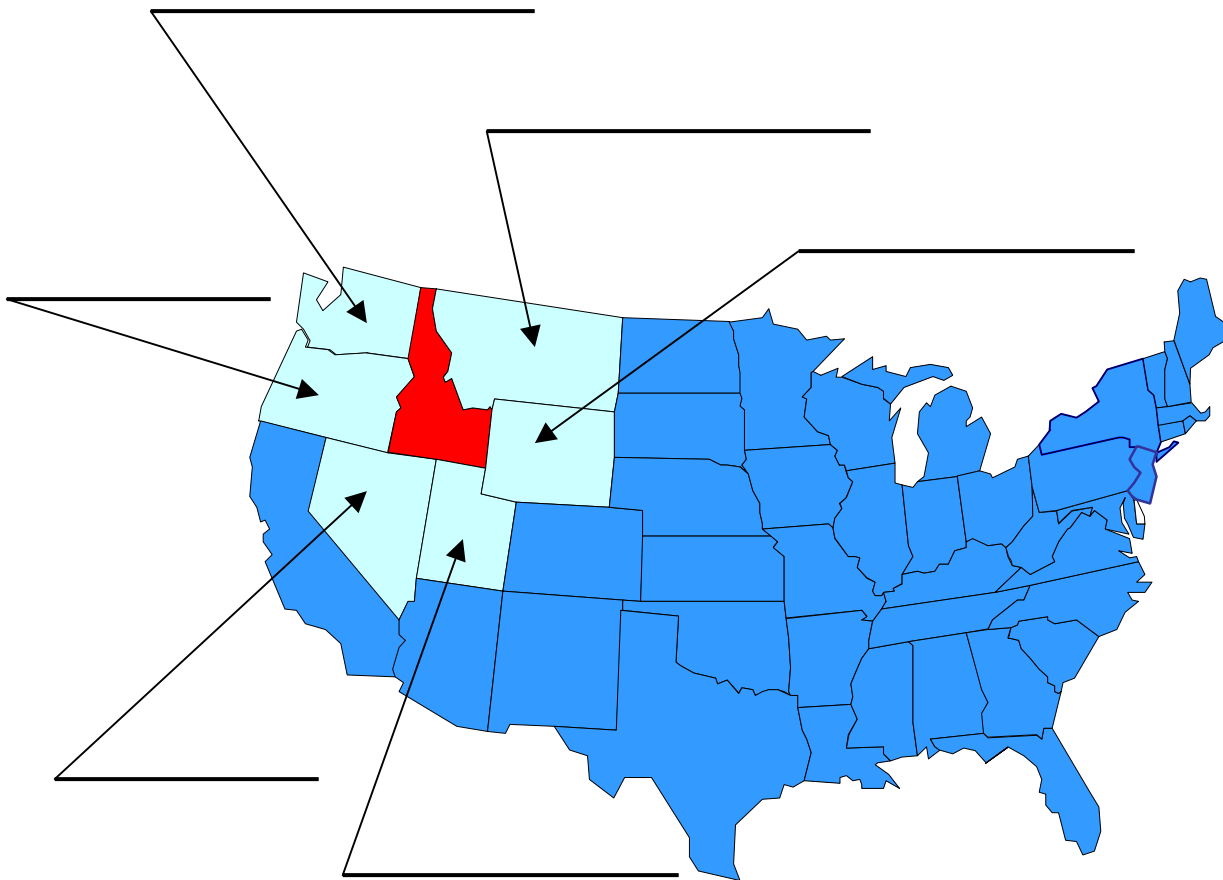
Unscramble the letters in the bolded boxes to reveal the answer to the clue.

**There are many wonderful places in Idaho to \_\_\_\_\_!**

\_\_\_\_\_

# MAP OF IDAHO

**DIRECTIONS:** Use a map to locate six states that border Idaho. Write the names of the states on the lines provided. Good luck!

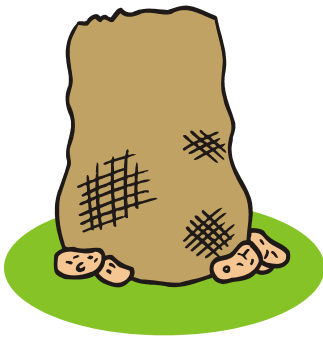


- 1) What is the capital of Idaho? \_\_\_\_\_
- 2) What country lies north of the United States? \_\_\_\_\_
- 3) Which two states make up Idaho's southern border? \_\_\_\_\_
- 4) Which two states make up Idaho's eastern border? \_\_\_\_\_
- 5) Which two states make up Idaho's western border? \_\_\_\_\_

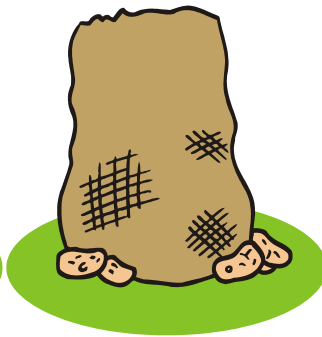
# IDAHO UNSCRAMBLE

**DIRECTIONS:** Unscramble the letters to reveal the name of an important aspect of Idaho's state culture. Write the unscrambled word in the potato sack directly above it. A word bank has been provided to help you. Good luck!

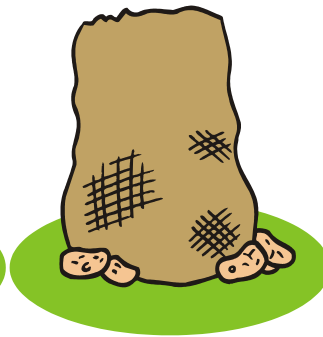
HAGERMAN HORSE  
HELLS CANYON  
HOT SPRINGS  
FORTY-THREE  
MOUNT BORAH  
NATIVE AMERICANS  
OREGON TRAIL  
SNAKE RIVER



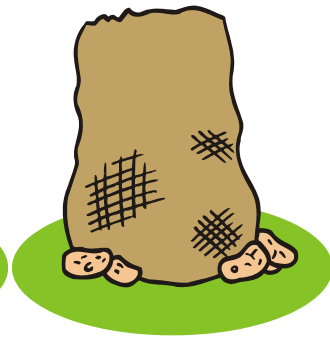
REVIR EKANS



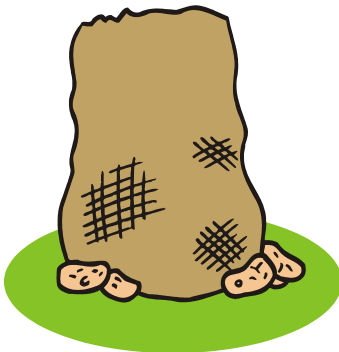
RGNOOE RITAL



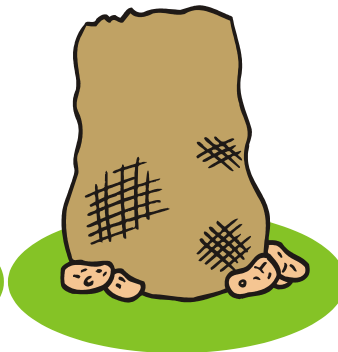
ATNIVE MERACANIS



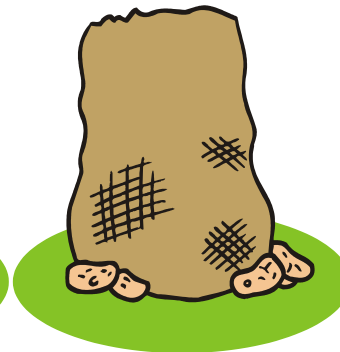
OUTNM ORHAB



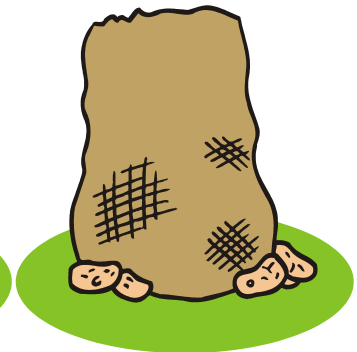
AGMANHER SEORH



OTH SSRNGPI



ORTYF EEHTR



ELLSH AYONCN

# THE WONDERFUL WORLD OF BUTTERFLIES



Butterflies belong to the class INSECTA. These insects have a head, thorax, abdomen, two antennae, six legs, and four wings that are usually covered by colored scales. There are more than 20,000 different kinds of butterflies in the world! Most of these butterflies are found in tropical climates. Butterflies play an important role in our ecosystem because they are plant pollinators.

The monarch butterfly is the state insect of Idaho. How can you tell the difference between a male and a female monarch butterfly? A male has black-colored scent glands on each hind leg. A female can lay up to 400 eggs also. During migration, monarch butterflies travel from Canada to Mexico without any assistance at all! Butterflies are amazing and beautiful creatures.

- 1) How many different kinds of butterflies exist in the world?
- 2) Most butterflies are found in what kind of climates?
- 3) Butterflies belong to what scientific class?
- 4) How can you tell the difference between a male and female monarch butterfly?
- 5) What important role do butterflies play in our ecosystem?
- 6) The paragraphs mention six types of body parts that insects have. What are they?
- 7) Draw a picture of a butterfly in the space below.

# HOW TO MAKE A POTATO BATTERY



## **MATERIALS NEEDED:**

**Two potatoes**

**Two short pieces of heavy copper wire**

**Two galvanized nails**

**Three alligator wire units**

**One low voltage LED clock that uses a 1 to 2 volt button-type battery**

## **INSTRUCTIONS:**

- 1) Remove the battery from the battery center of the clock.**
- 2) Make note of which way the negative and positive points of the battery went.**
- 3) Number the potatoes as POTATO #1 and POTATO #2.**
- 4) Insert one nail into each potato.**
- 5) Insert one short piece of the copper wire into each potato as far away from the nail as possible.**
- 6) Use one alligator clip to connect the copper wire in POTATO #1 to the positive position in the clock's battery center.**
- 7) Use one alligator clip to connect the nail in POTATO #2 to the negative position in the clock's battery center.**
- 8) Use the third alligator clip to connect the nail in POTATO #1 to the copper wire in POTATO #2 and set the clock.**
- 9) Is your spud a dud? If so, check over the directions again and make sure you have followed them exactly.**

# INVENTION PROJECT

Each student is responsible for creating their own invention. This project can be a new invention or an improvement to a product already in existence.

Each student will present their invention in class, share their reasons for creating the project, and plan to display their project for others to look and learn. Make sure you have a name for the invention and create an invention label that sits beside or is attached to the project.



Information to be included on the label:

- 1) Name of invention \_\_\_\_\_
- 2) Invented by \_\_\_\_\_
- 3) Purpose of the invention \_\_\_\_\_
- 4) How and why my invention will help to make our lives easier \_\_\_\_\_  
\_\_\_\_\_

# BUTTERFLY

## STAINED-GLASS ART



### MATERIALS NEEDED

pencil  
18" X 24" piece of manila paper  
broad marker  
18" X 24" piece of black construction paper  
masking tape  
tissue paper (various colors)  
scissors  
classroom glue  
white vellum paper  
pictures of butterflies  
discarded cardboard boxes (to use as a cutting board to protect table tops)  
X-acto knife  
\* adult assistance/supervision \*

- 1) Draw a one-inch border on an 18" X 24" piece of manila paper. Draw a picture of a monarch butterfly. Make sure you use most of the space. Be sure all parts of your picture are connected.
- 2) Trace over all lines with a broad marker; the thicker the lines, the stronger your "stained glass" will be.
- 3) Attach an 18" X 24" piece of black construction paper to the back of your manila paper. With an X-acto knife, cut in between the marker lines to create a small window. Cut over or through any lines. Repair any mistakes with masking tape on the back of the design.
- 4) When you are finished cutting the entire design, remove the manila paper and choose colors of tissue paper that you will use in place of pieces of colored glass.
- 5) Lay a piece of tissue paper under a section of the black construction paper design. Trace the shape with a pencil. With scissors, cut the tissue  $\frac{1}{4}$ " larger than you traced it. Apply glue to the back of that section only. Carefully attach tissue paper (it is fragile and sensitive to wetness). Cut off any extra tissue with the X-acto knife.
- 6) Continue with all of your colors until it is complete.
- 7) Once the tissue covers all open areas attach a piece of white vellum paper to the back.
- 8) Hang the pictures in windows and enjoy the wonderful view!

# ART POTATO STAMPS

## MATERIALS NEEDED

potato  
sharp knife  
paint  
paper  
a shallow dish  
\* adult supervision/assistance \*

## DIRECTIONS:

- 1) Wash the potato and cut it in half. On the cut face of the potato, use the knife to carve a simple shape (for example, a diamond or star).
- 2) Cut away the potato surrounding the shape so that the shape protrudes about half an inch.
- 3) Now, it is time to begin stamping! Pour paint into a shallow dish so that you can begin to use your potato as a stamp. Begin to stamp your paper.
- 4) Hints: Poster paint works best with paper. Fabric paint works best with t-shirts, hats, etc. Make sure you wash your potato before changing colors. Remember, these potato stamps do deteriorate over time and will most likely have to be discarded in some way after each crafting session.
- 5) Have fun and be creative!



# TOLERANCE



**DIRECTIONS:** Answer the following questions about tolerance on your own or as a group.

- 1) What is the definition of tolerance?
- 2) What basic needs do all people have?
- 3) In what ways are people all over the world similar?
- 4) In what ways are people all over the world different?
- 5) Why do you think some people are not tolerant of people who have a different religion or skin color than their own?
- 6) Why is it important to be tolerant of other people?
- 7) Can a tolerant person be a courageous person also?
- 8) What are some ways in which you can be tolerant of others?
- 9) What people mentioned in the book, *P is for Potato*, showed tolerance?

# SETTING GOALS

◆ What is a short-range goal?

◆ What is a long-range goal?

A SHORT-RANGE GOAL YOU CAN  
ACHIEVE AT HOME

A SHORT-RANGE GOAL YOU CAN  
ACHIEVE AT SCHOOL

ANOTHER SHORT-RANGE GOAL YOU  
CAN ACHIEVE



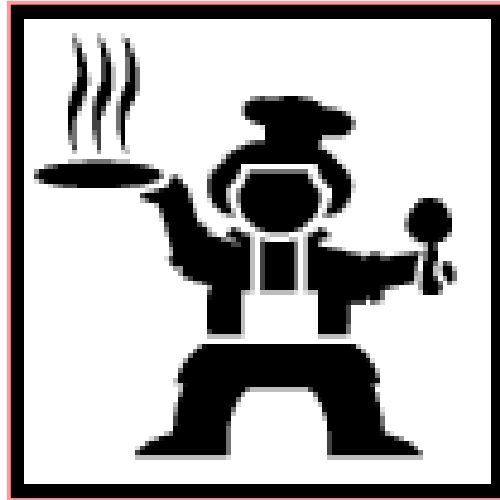
**A LONG-RANGE GOAL YOU CAN  
ACHIEVE AT HOME**

**A LONG-RANGE GOAL YOU CAN  
ACHIEVE AT SCHOOL**

**ANOTHER LONG-TERM GOAL YOU  
CAN ACHIEVE**



# MAKING POTATO CHIPS



## INGREDIENTS:

2 pounds of potatoes  
1 quart of vegetable oil  
salt (or other seasonings)

## METHOD ONE:

Thinly slice potatoes. Cover sliced potatoes in cold water and soak for one hour. Drain the potatoes and allow them to dry thoroughly. Heat oil in a five-quart pot over medium heat at 375 degrees. Fry potatoes in small batches until golden brown. Drain on paper towels and salt/season. Serve and enjoy.

## METHOD TWO:

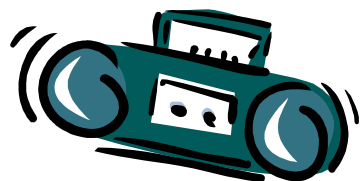
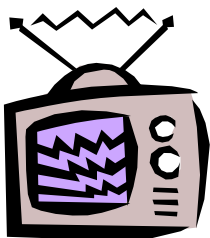
Thinly slice potatoes. Spray a baking sheet with cooking spray. Place the potato slices in a single layer. Spray lightly with cooking spray. Sprinkle with salt/seasoning. Bake at 400 degrees until golden brown. Serve and enjoy.

# PAST, PRESENT, AND FUTURE

**DIRECTIONS:** You have learned that the state of Idaho has a rich history in research and inventions. Many different inventors have developed ideas and products in the state. It is very interesting to learn about those products because we use many of them everyday! Below are lists of products and the time period in which they were used. Your job is to think about what products may be invented in the future and write your idea on the line. Who knows, you may be the inventor of that product! Share your ideas with classmates. Good luck!

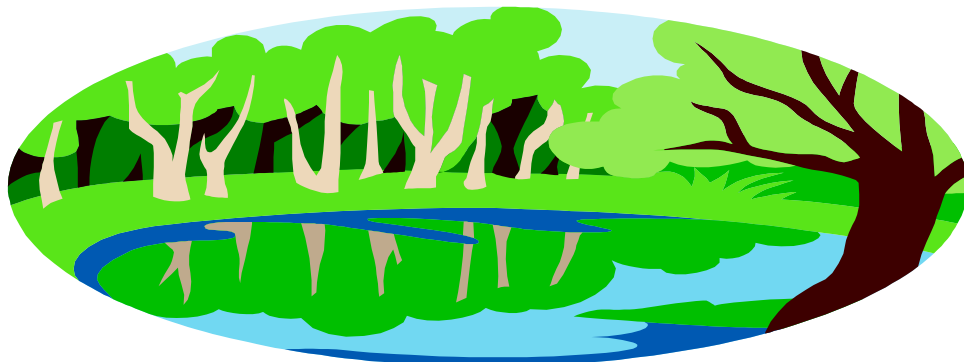
**\*CHALLENGE-**Use the blanks at the bottom of the page to create your own category and information.

	<u>1934</u>	<u>1994</u>	<u>2054</u>
Transportation	buses/trains	automobiles	_____
Communication	mail	fax/telephone	_____
Writing	typewriter	computer	_____
Cooking	stove	microwave oven	_____
Food storage	icebox	refrigerator	_____
Recreation	dolls/ball	video games	_____
Entertainment	radio	television	_____
Music enjoyment	radio	CD player	_____
News	radio/newspaper	television	_____
_____	_____	_____	_____



# WHAT DO YOU SEE?

**DIRECTIONS:** Take a close look at the pages of the book *P is for Potato*. Notice all of the different types of animals shown throughout the book. Using a sheet of paper and a pencil, write down as many types of animals as you observe in the pictures. When you are finished with your list, alphabetize the words. Share your list with classmates. What animals were found? Which animal is your favorite?



# WORDSEARCH

**DIRECTIONS:** Try to locate the words from, *P is for Potato*, in the word search below.

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

APPALOOSA  
BOISE  
DUNES  
GOLD  
HUCKLEBERRY  
IDAHO  
POTATOES  
QUINCEANERA  
SKI  
SYRINGA  
TROUT  
TXISTU  
ZINC



## **KEY**

### **STATE FACTS**

1) TREE 2) GEM 3) FLOWER 4) FRUIT 5) INSECT 6) CAPITAL 7) FISH 8) BIRD 9) HORSE

### **WHO AM I?**

- 1) EMMA EDWARDS GREEN
- 2) PICABO STREET
- 3) MOSES ALEXANDER
- 4) WILLIAM BORAH
- 5) J.R. SIMPLOT
- 6) LEWIS AND CLARK
- 7) SACAJAWEA
- 8) PHILO FARNSWORTH
- 10) EMMA YEARIAN
- 10) HENRY SPALDING
- 11) LARRY ECHOHAWK

### **WHERE AM I?**

- 1) WORLD CENTER FOR BIRDS OF PREY
- 2) SALMON RIVER
- 3) NAMPA, IDAHO
- 4) OREGON TRAIL
- 5) MOUNT BORAH
- 6) HELLS CANYON
- 7) SNAKE RIVER
- 8) BRUNEAU SAND DUNES
- 9) BOISE, IDAHO
- 10) CRATERS OF THE MOON

### **IDAHO ACROSTIC**

I=NICKNAME

D=DESERT

A=SACAJAWEA

H=HUCKLEBERRY

O=BOISE

### **MAP**

- 1) BOISE
- 2) CANADA
- 3) NEVADA AND UTAH
- 4) MONTANA AND WYOMING
- 5) WASHINGTON AND OREGON

### **UNSCRAMBLE**

- 1) SNAKE RIVER
- 2) OREGON TRAIL
- 3) NATIVE AMERICANS
- 4) MOUNT BORAH
- 5) HAGERMAN HORSE
- 6) HOT SPRINGS
- 7) FORTY THREE
- 8) HELLS CANYON

### **WORLD OF BUTTERFLIES**

- 1) 20,000
- 2) TROPICAL
- 3) INSECTA
- 4) MALE-BLACK COLORED SCENT GLANDS
- 5) PLANT POLLINATORS
- 6) HEAD, THORAX, ABDOMEN, TWO ANTENNAE, SIX LEGS, FOUR WINGS

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