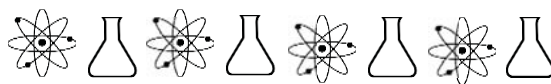


EP Biology Printables: Levels 5-8



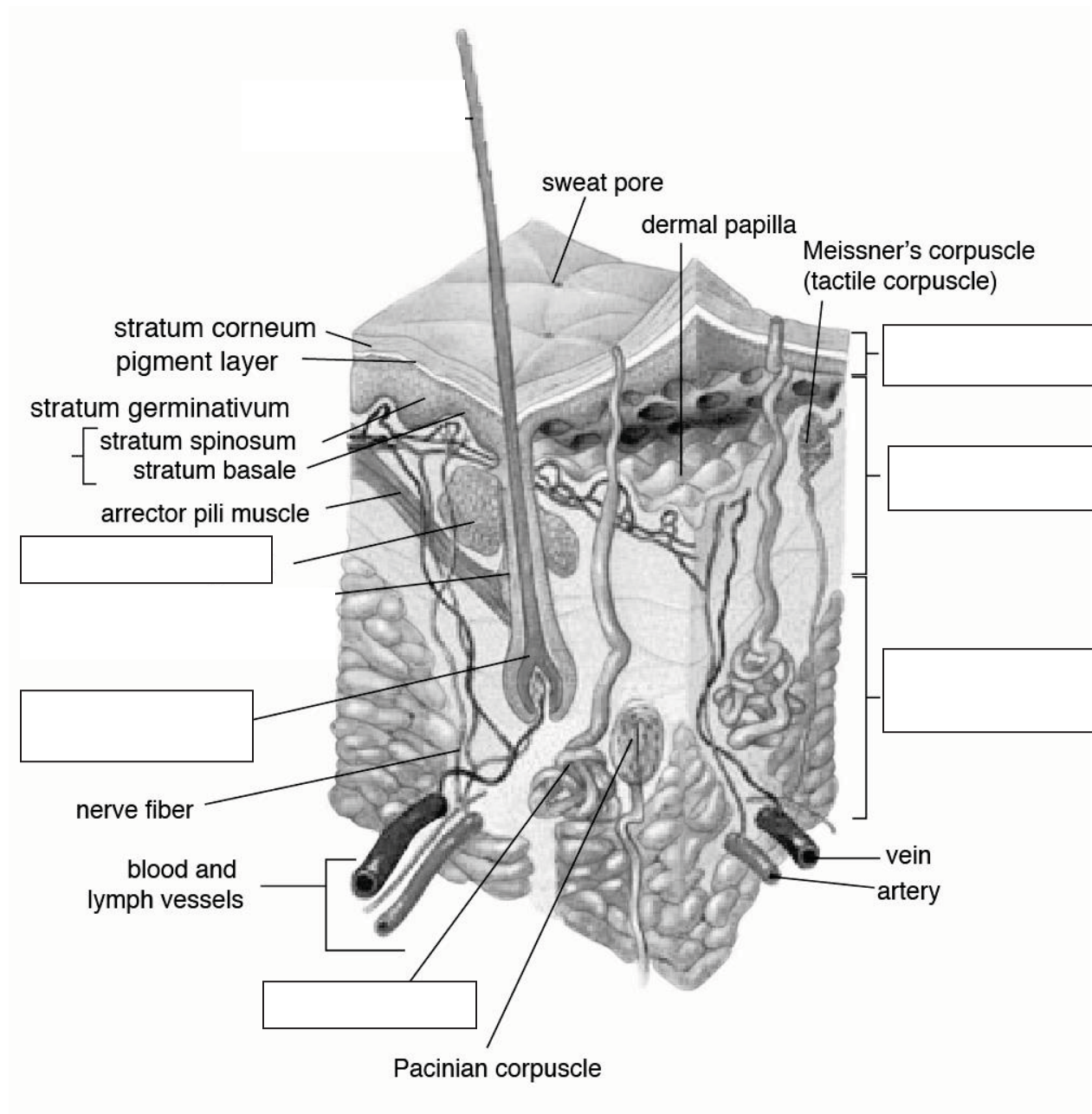
This book belongs to:

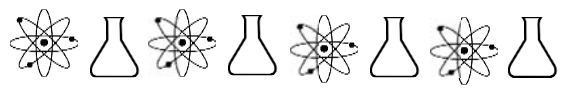


Label the Skin

Label the skin using the words in the box.

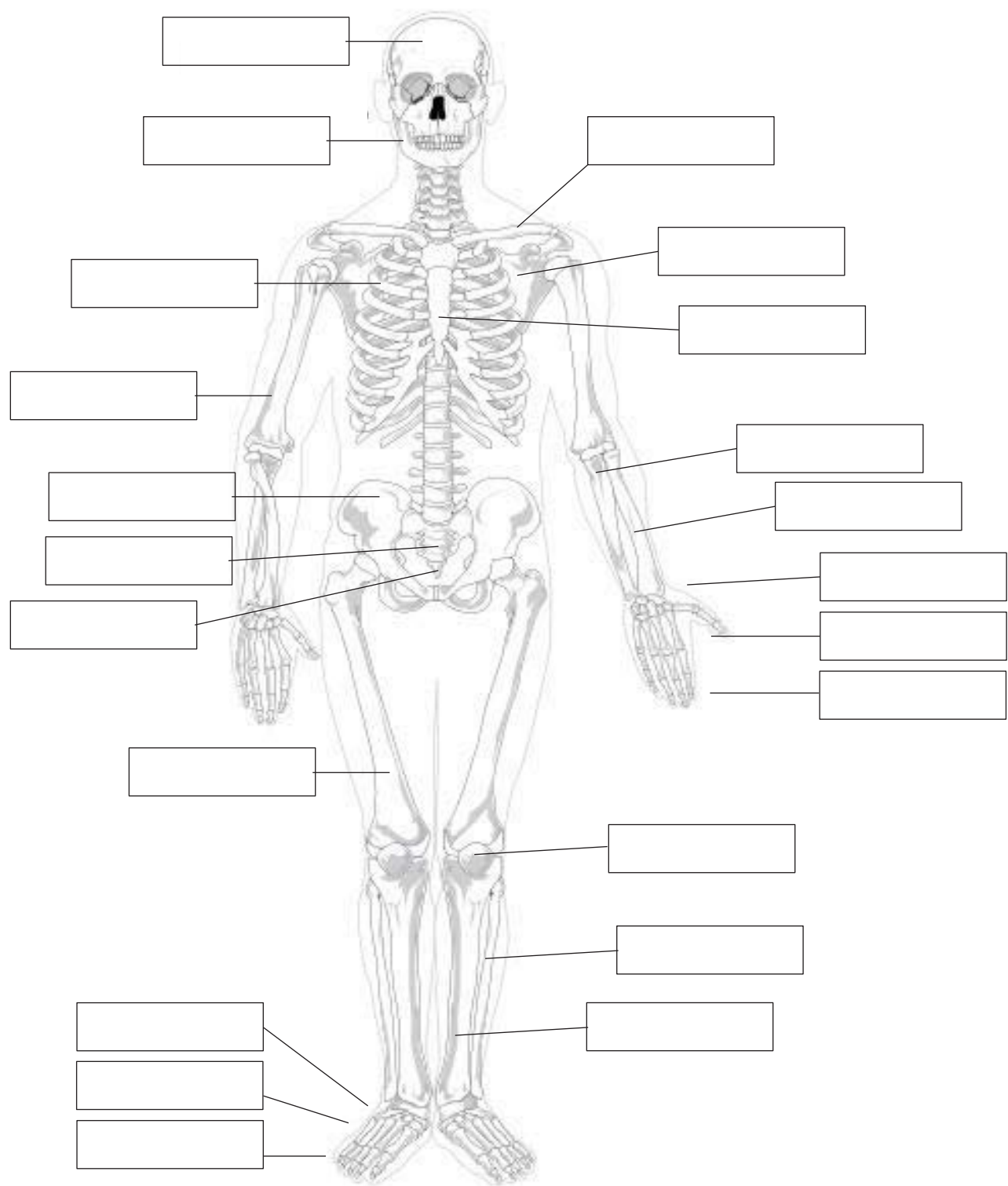
sebaceous gland dermis sweat gland
subcutaneous tissue epidermis hair

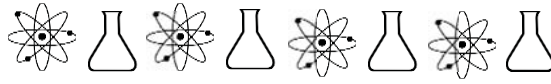




Skeleton

Label the skeleton with the name of each bone.

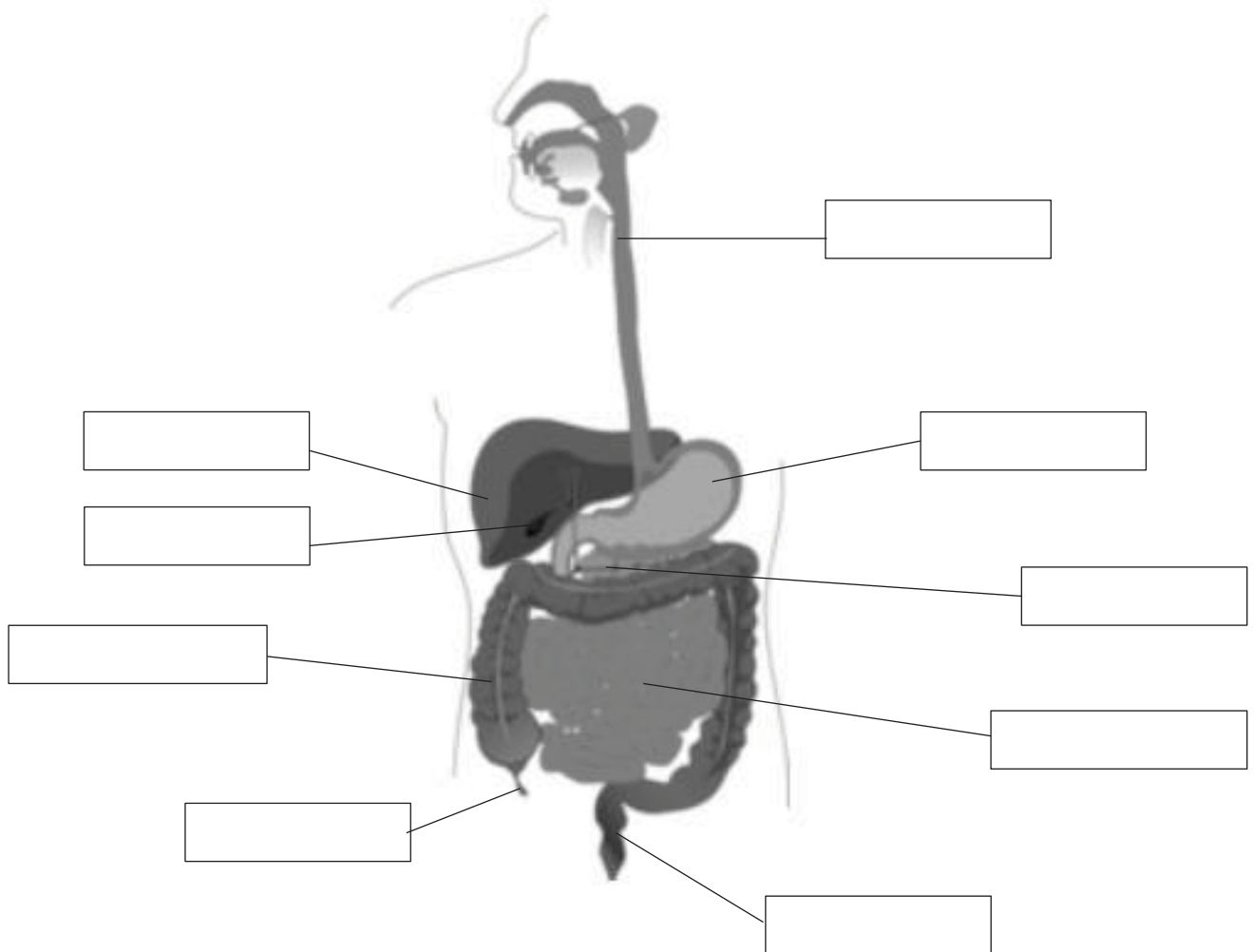


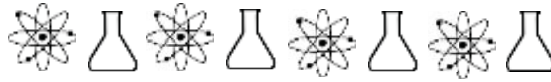


Digestive System

Label the digestive system. Use the word box to help you.

esophagus liver rectum appendix stomach
pancreas small intestine large intestine gallbladder





Word Search

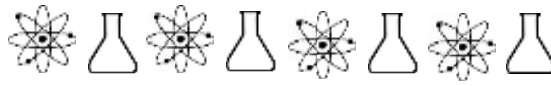
Find the skin words in the word search.

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

cell
follicle
nerves
sweat

dermis
hair
pore
subcutaneous

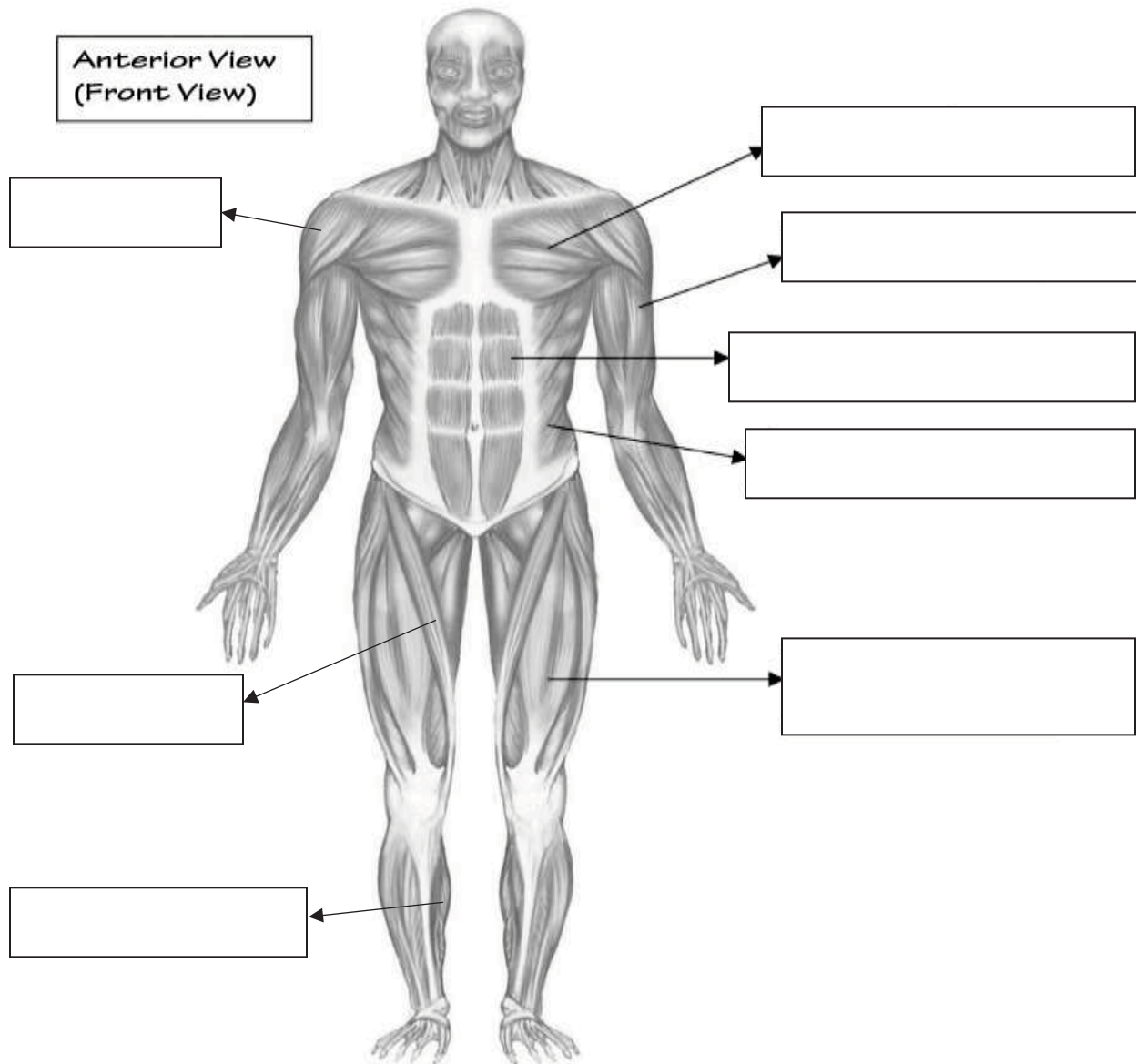
epidermis
melanin
skin

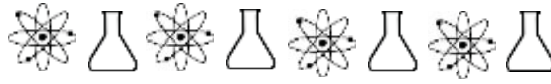


Label the Muscles

Label the muscles using the words in the box.

obliques biceps rectus abdominus pectorals
quadriceps deltoids gastrocnemius sartorius

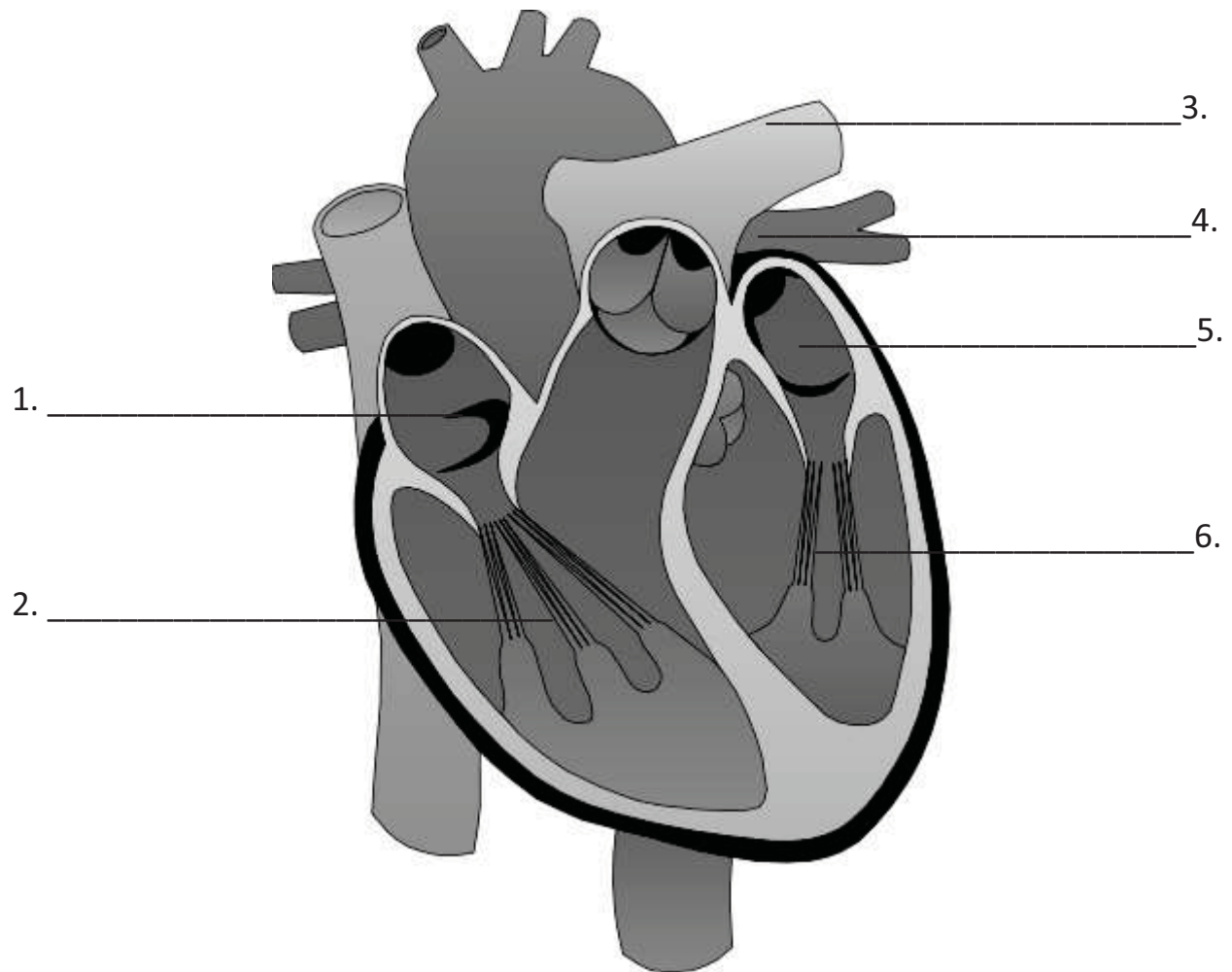


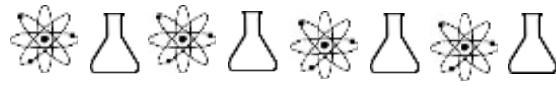


Label the Heart

Label the heart using the words in the box.

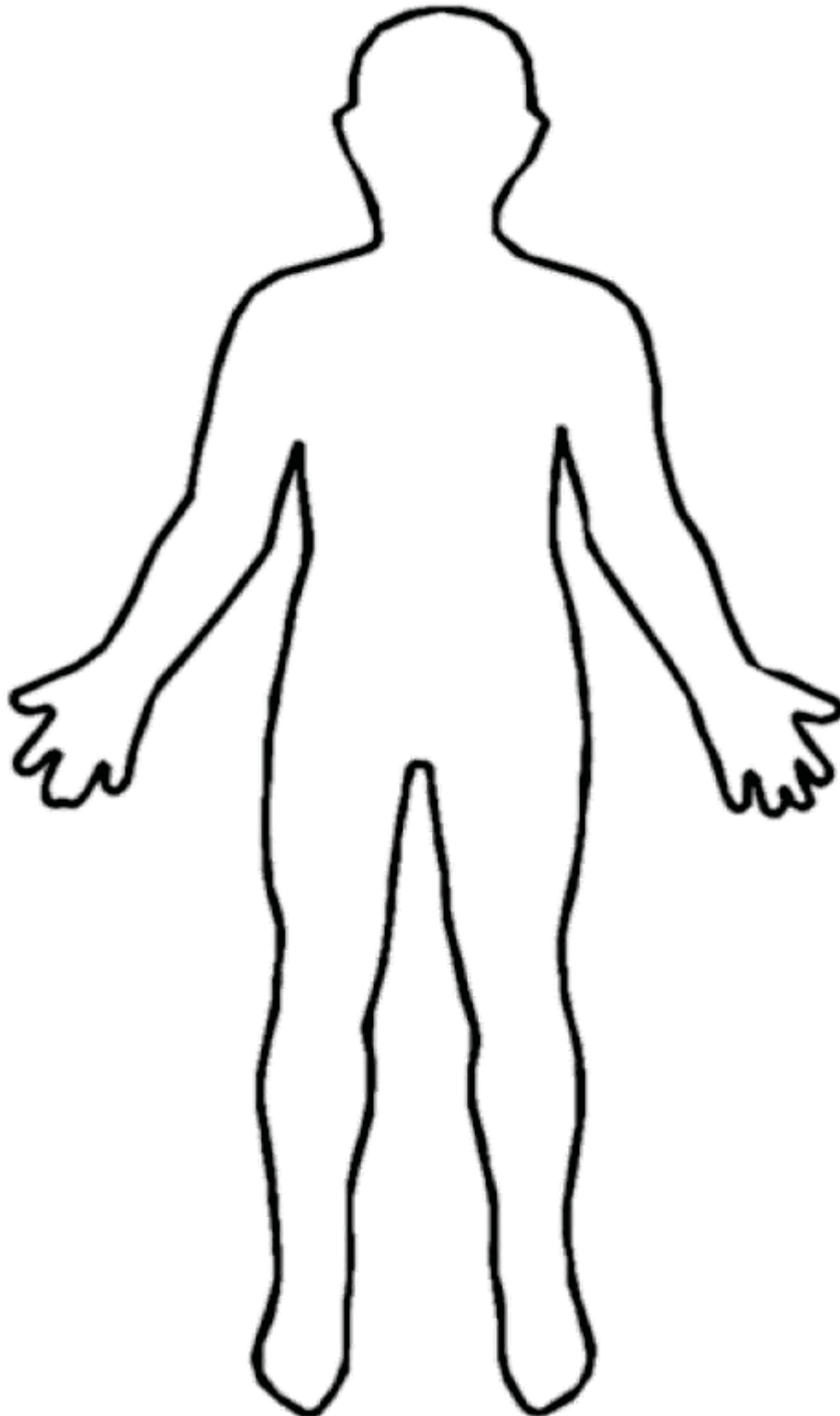
right ventricle	left ventricle	pulmonary vein
right atrium	left atrium	pulmonary artery

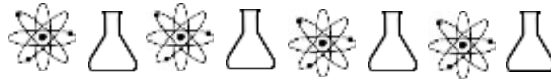




Label the Body

Label as much of the body as you can.

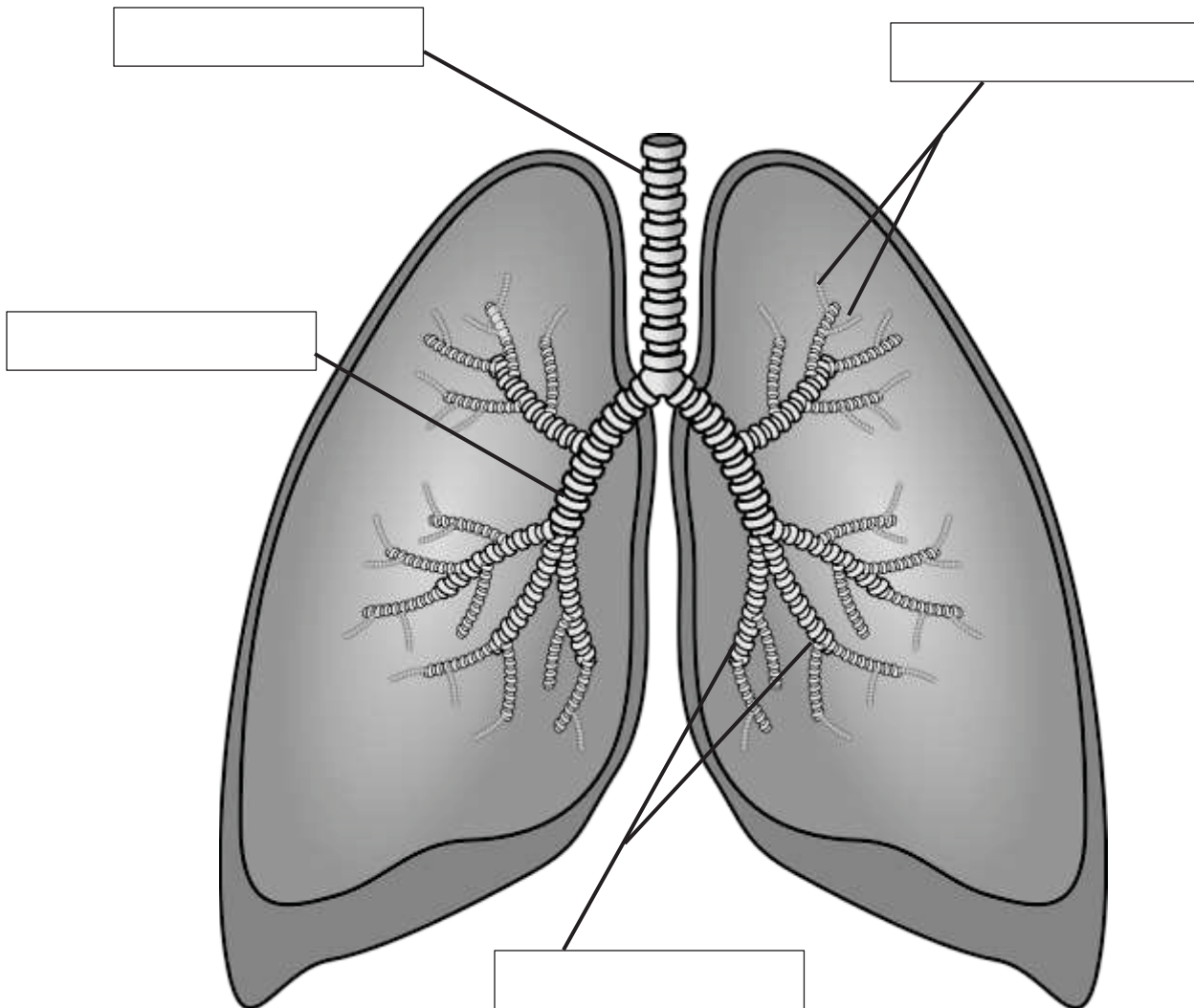


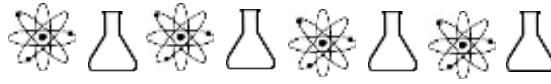


Label the Lungs

Label the lungs using the words in the box.

alveoli bronchioles
bronchus trachea

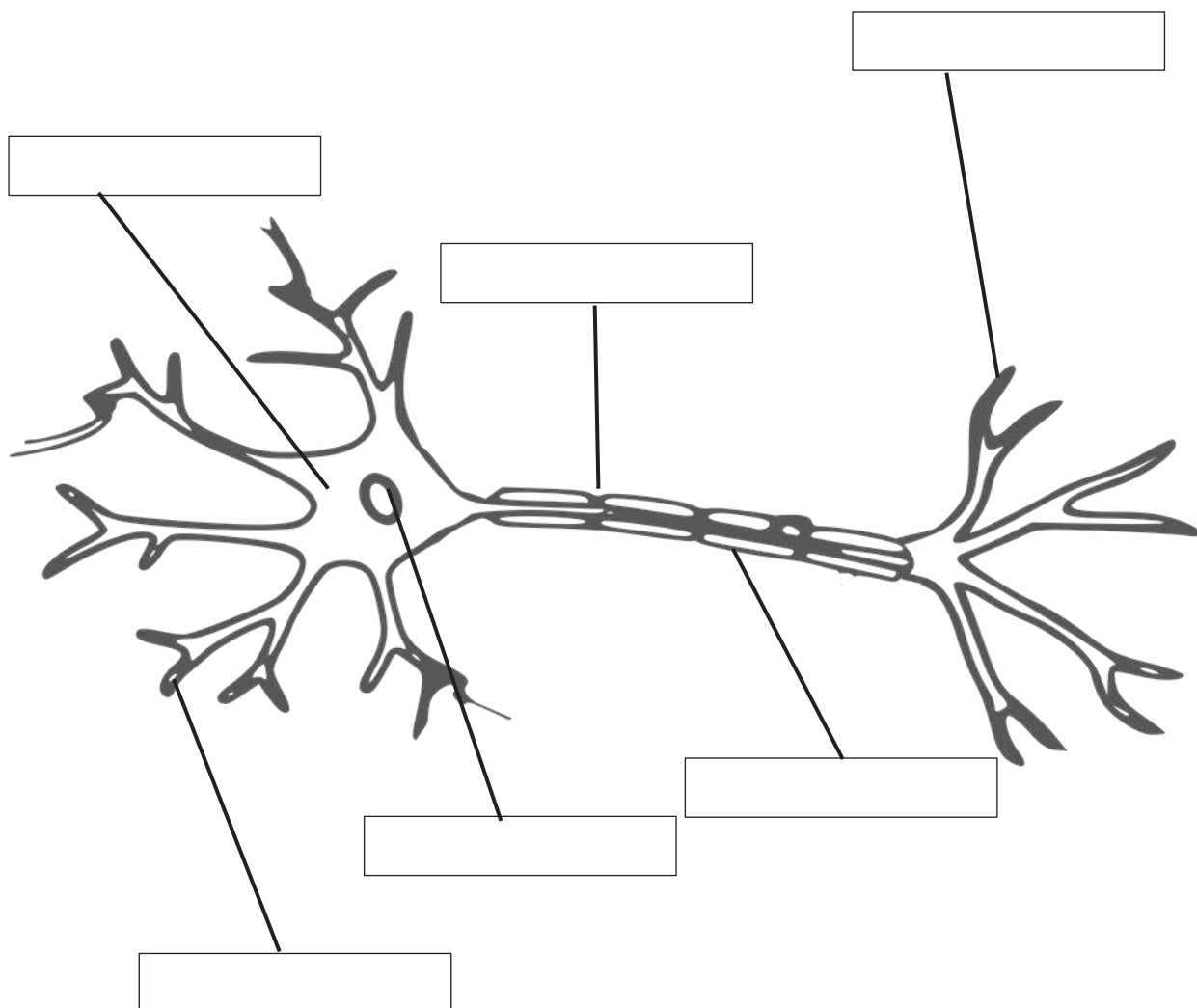


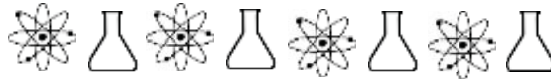


Label the Nerve

Label the nerve using the words in the box.

axon	axon terminals	cell body
dendrites	nucleus	myelin sheath

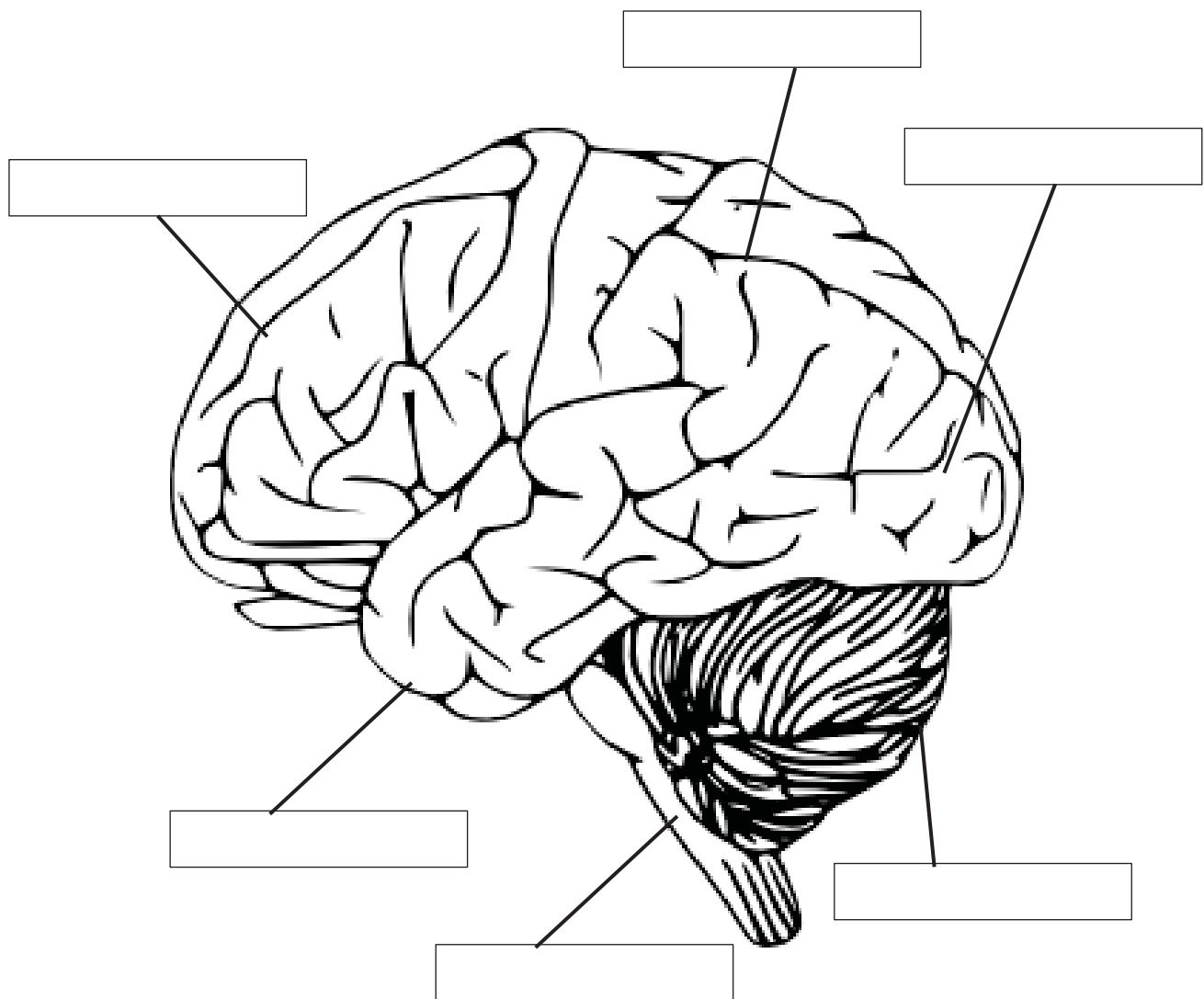


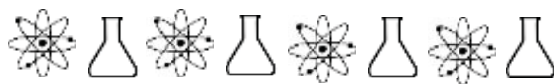


Label the Brain

Label the brain using the words in the box.

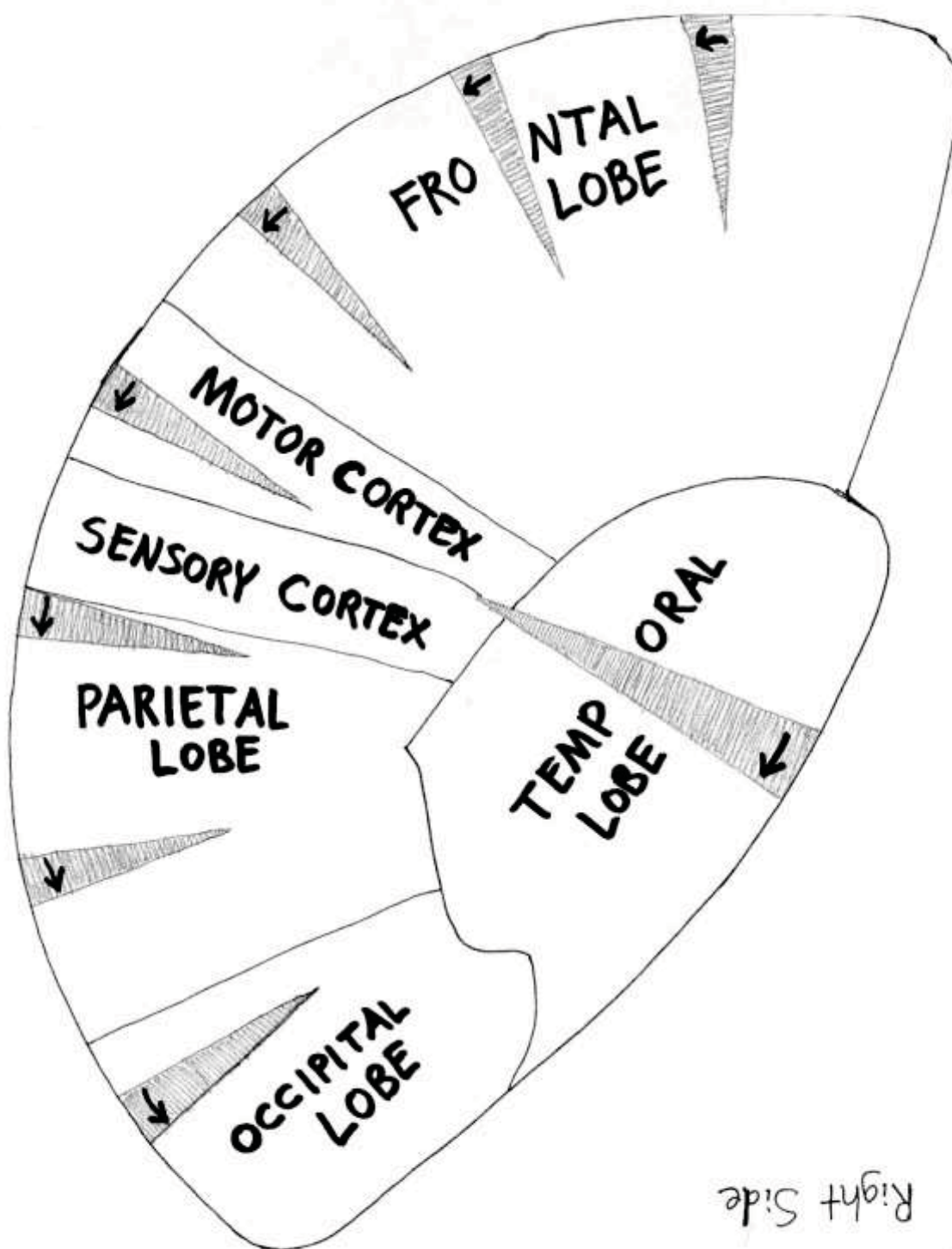
brain stem	cerebellum	frontal lobe
occipital lobe	parietal lobe	temporal lobe

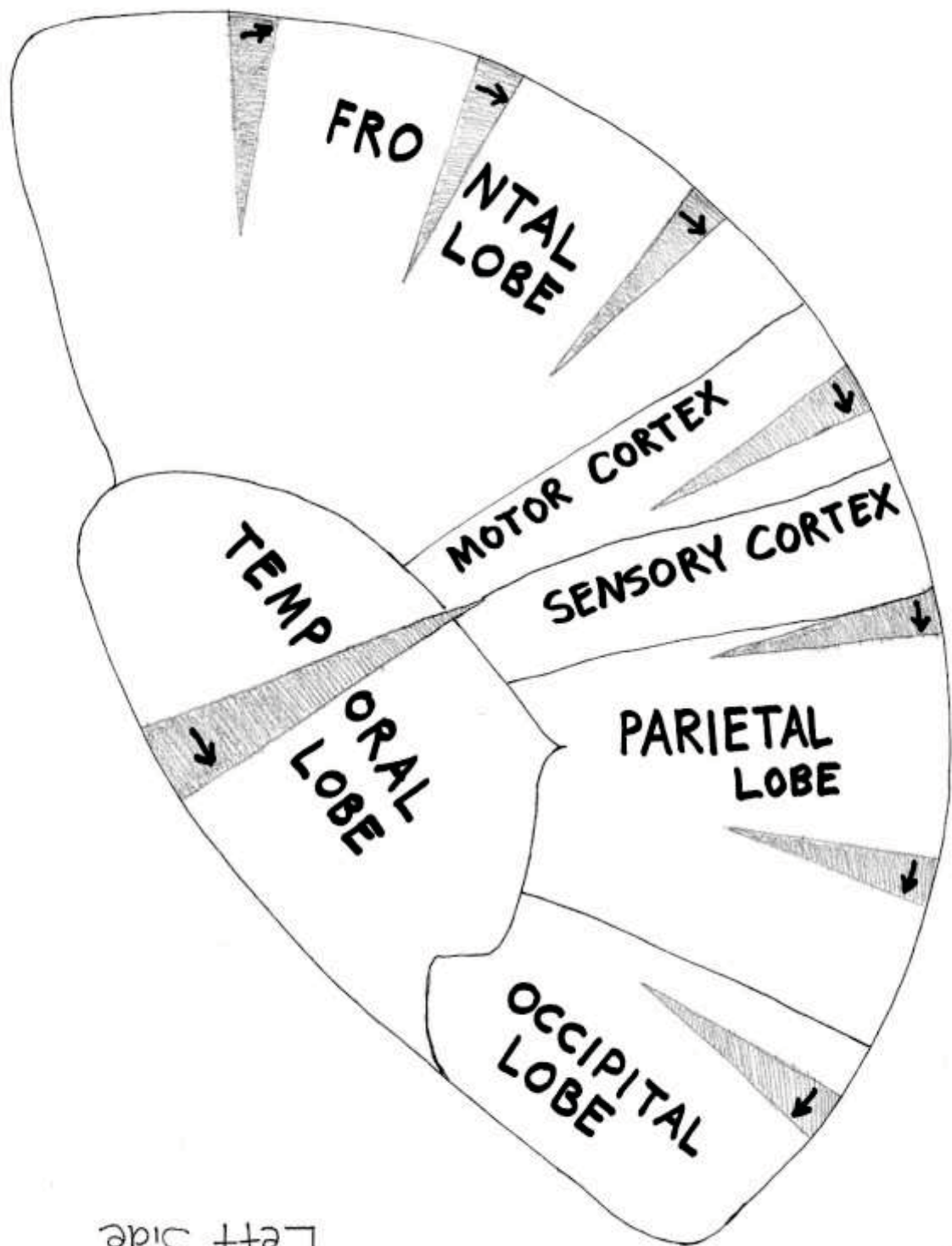
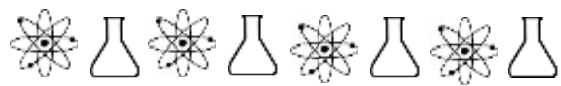




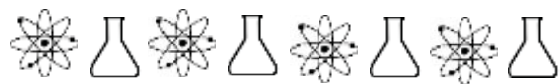
Brain Hat

Follow the directions on the site to make a brain hat.





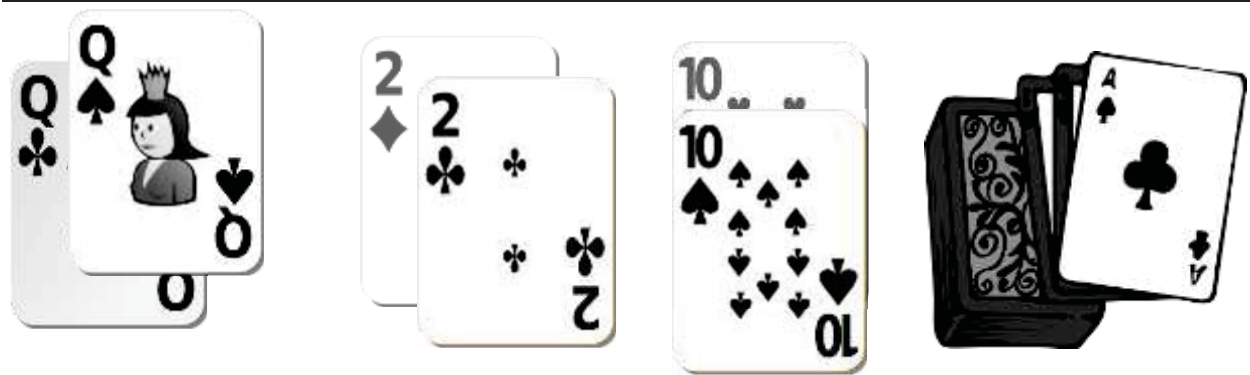
Left Side

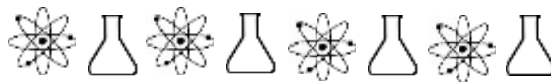


Data Chart

Use this data chart to complete your experiment. In the “time” box, record how long it took to find all ten matches.

Trial number	Time
Trial 1	
Trial 2	
Trial 3	
Trial 4	
Trial 5	
Trial 6	





Experiment Worksheet

Fill out this worksheet as you work through the experiment.

Question: _____

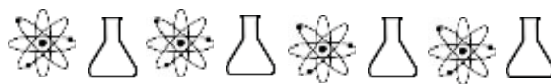
Hypothesis: _____

Materials: _____

Procedure: _____

Observations/data: _____

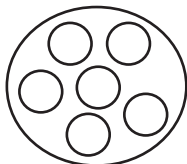
Conclusion: _____



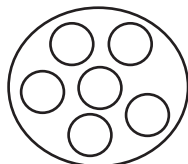
Genetics Activity

First, color in the circles using the directions on the site. Then use your colored-in sheet to answer the questions on the following page.

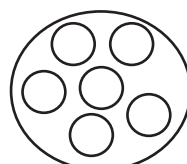
Grandfather A



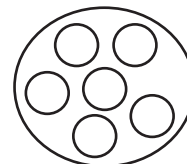
Grandmother A



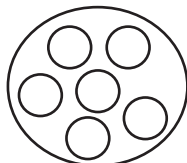
Grandfather B



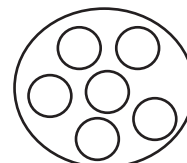
Grandmother B



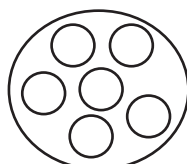
Father



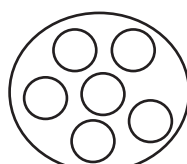
Mother



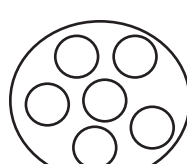
Iris



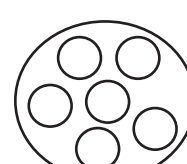
Chase

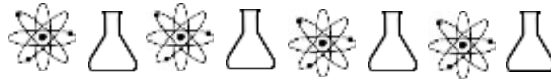


Bristol



Daniel

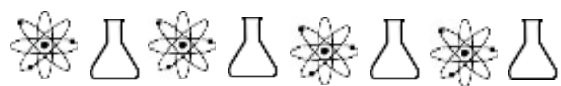




Genetics Activity cont.

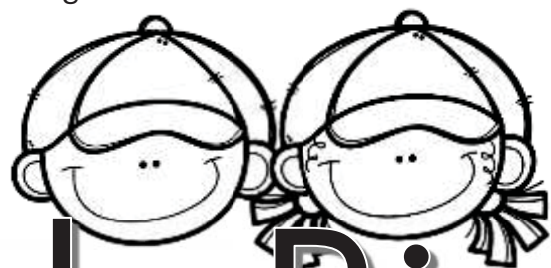
Use your colored-in sheet to answer the following questions.

1. Do Iris, Chase, Bristol, and Daniel have the exact same traits as their parents, and as each other? In other words, are they identical?
2. Is there variation in the traits the children received?
3. How many of the children at the bottom inherited a trait from each grandparent at the top?
4. Was there any grandparent at the top whose color was not represented in a child at the bottom?

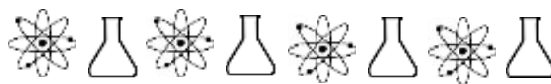


Body Bingo

This page is your body bingo board.

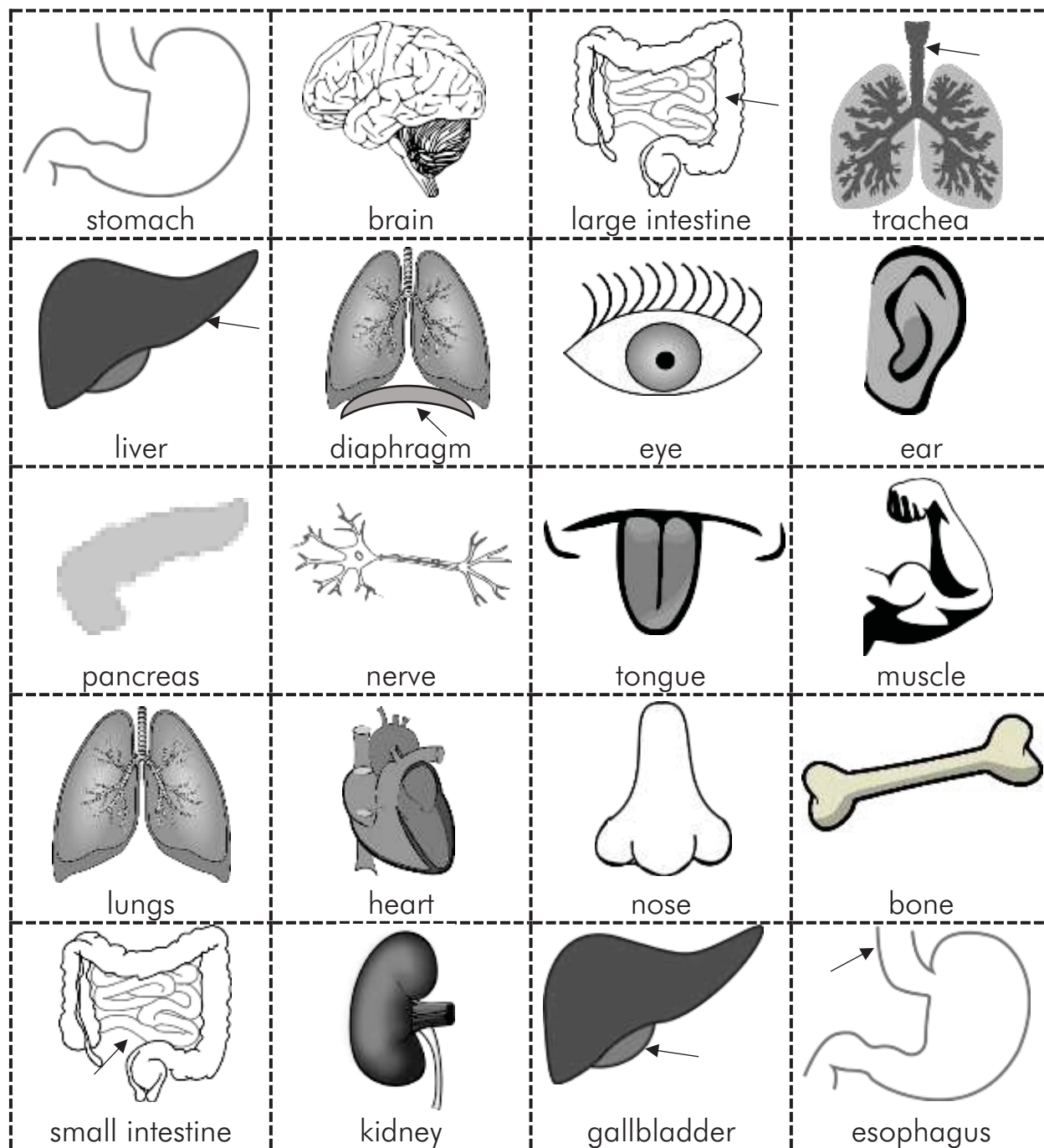


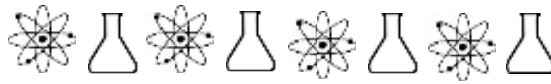
Body Bingo



Body Bingo

Cut out the pieces and arrange them on your board in a random order. There are more pieces than squares for variation purposes.

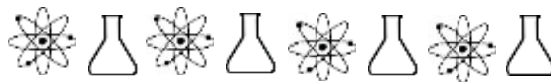




Body Bingo

Have someone read out the questions and see if you have the answer on your bingo board. Can you figure it out without the answer being given to you?

1. This part tells your muscles to move. (brain)
2. This is lined with mucus to protect it from its own acid. (stomach)
3. This part uses peristalsis to move food down. (esophagus)
4. This produces insulin. (pancreas)
5. This organ can't work without light. (eye)
6. Being hit in this muscle knocks the wind out of you. (diaphragm)
7. Uncoiled, this would stretch out over 16 feet. (small intestine)
8. These only contract. (muscles)
9. This body part branches into bronchial tubes. (trachea)
10. This organ includes the vena cava. (heart)
11. The hepatic veins and arteries go in and out of this organ. (liver)
12. The renal veins and arteries go in and out of this organ. (kidney)
13. This connects to both the liver and the stomach. (gall bladder)
14. This body part sits beneath the uvula. (tongue)
15. The alveoli are found here. (lungs)
16. The appendix is attached to this. (large intestine)
17. The brain connects to this part via the auditory nerve. (ear)
18. The space between these is the synapse. (nerves)
19. Blood cells are made inside this. (bone)
20. Tiny hairs allow this organ to filter out dust. (nose)



Word Find

Use the definitions to find the hidden word in the grid. The letters can go any direction around the grid, but will never cross.

D	O	L	M
I	G	P	A
E	S	E	R
V	I	T	S

System responsible for
extracting nutrients from
food

T	I	M	S
R	S	M	O
E	N	U	F
A	E	T	L

System responsible for
fighting disease in the
body

S	E	R	P
P	I	R	E
Y	L	A	N
R	O	T	T

System responsible for
oxygenation of the body

M	E	O	B
O	H	S	T
C	I	S	A
A	S	F	W

Process by which the
body maintains stability

D	I	M	C
G	K	E	Y
L	S	L	F
A	T	E	U

System that protects
and supports the body

N	H	V	M
T	C	S	U
E	U	L	G
K	R	A	T

System responsible for
allowing the body to
move

A	H	D	O
R	C	J	E
K	E	L	X
U	N	L	S

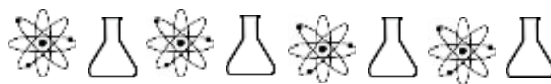
The building blocks
of the body

R	C	I	P
E	X	E	L
T	F	B	S
O	R	Y	V

System responsible for
removing waste from the
body

Q	M	E	N
C	W	R	A
L	G	V	T
Y	J	E	S

Send messages through-
out the body



Word Find

Use the definitions to find the hidden word in the grid. The letters can go any direction around the grid, but will never cross.

C	G	A	N
I	R	C	I
Y	B	U	L
R	O	T	A

System responsible for
transporting nutrients
and waste

I	N	R	O
S	A	G	D
M	T	I	F
C	O	P	E

A living thing

E	I	R	S
B	N	C	O
R	E	N	D
U	T	I	K

Glands that serve to
regulate things such
as metabolism

T	P	L	N
I	S	E	D
Y	S	U	C
A	R	M	I

Group of cells working
Together

D	C	L	F
I	S	J	E
O	A	N	B
R	G	I	R

Group of tissues
working together

C	I	Y	S
E	T	S	N
M	R	L	O
G	A	D	E

Group of organs
working together

A	S	U	L
T	C	M	I
R	L	E	K
D	P	N	B

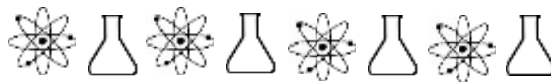
Contracts to create
movement

N	I	C	O
T	E	G	V
R	Y	U	M
A	T	N	E

System responsible for
regulating temperature

V	I	B	R
E	T	C	E
S	U	N	N
L	F	O	C

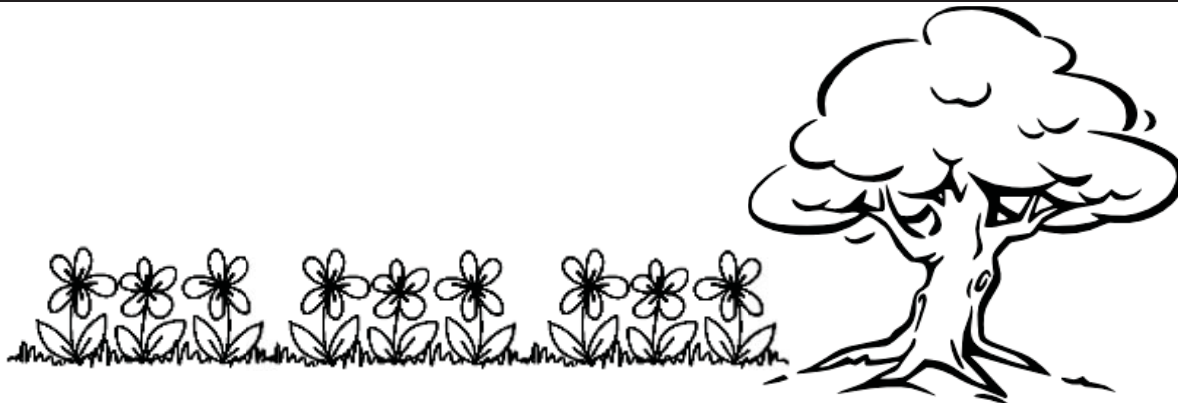
Tissue that joins things
together

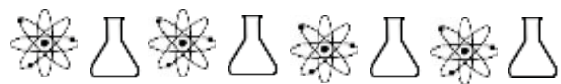


Observation Sheet

Use this sheet to record your observations.

Plants	Things that need plants

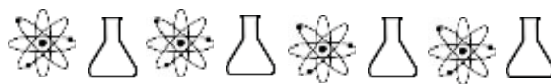




Compare Elements of Growth

Use this sheet to record your findings.

Day	Light	Dark	Fan
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			



Experiment Worksheet

Fill out this worksheet as you work through the experiment.

Question: _____

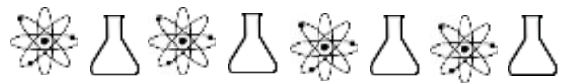
Hypothesis: _____

Materials: _____

Procedure: _____

Observations/data: _____

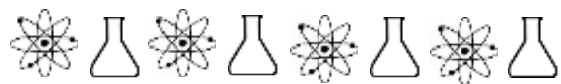
Conclusion: _____



Plant Categories

Write or draw as many examples as you can think of for each category.

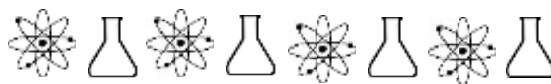
Roots	Seeds	Leaves
Fruits	Flowers	Stems



Tree Observation

Sit quietly near your tree. Take notes on your observations.

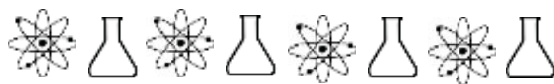
<div>Draw the tree. Use a tape measure to record the measurement around the tree. _____</div>	<div>Looking</div> <div>What living things do you see in and near your tree?</div>
	<div>Listening</div> <div>Do you hear animals playing or singing in the tree? Do you hear wind moving leaves or branches?</div>
<div>Make a rubbing of the bark.</div>	<div>Touching</div> <div>Is the bark smooth or rough? Are the leaves soft or prickly?</div>
<div>Make a rubbing or trace a leaf.</div>	<div>Smelling</div> <div>What does the bark smell like? The leaves? Are there flowers on the tree?</div>
<div>What season is it now?</div> <div>What kind of tree are you observing?</div>	<div>Any other observations?</div> <div>Has the tree changed since the previous season?</div>



Tree Observation

Sit quietly near your tree. Take notes on your observations.

	Looking What living things do you see in and near your tree?
	Listening Do you hear animals playing or singing in the tree? Do you hear wind moving leaves or branches?
Draw the tree. Use a tape measure to record the measurement around the tree. _____	
Make a rubbing of the bark.	Touching Is the bark smooth or rough? Are the leaves soft or prickly?
Make a rubbing or trace a leaf.	Smelling What does the bark smell like? The leaves? Are there flowers on the tree?
What season is it now? What kind of tree are you observing?	Any other observations? Has the tree changed since the previous season?



Scavenger Hunt

Use this page for your scavenger hunt if it is currently fall.

Fall



Look for these:

- A falling leaf
- A crawling insect
- A bird
- 3 different color leaves
- A seed
- A flying insect
- Animal tracks

Colors found: _____



Listen for these:

- Something moved by the wind
- Leaves crunching
- An animal's call
- An insect

What else do you hear?

Touch these:

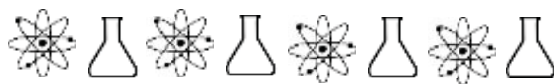
- A crunchy, crinkly leaf
- A smooth rock
- Tree bark

What did it feel like?

Smell these:

- Campfire
- Pine cones

What else do you smell?



Scavenger Hunt

Use this page for your scavenger hunt if it is currently spring.

Spring

Look for these:

- ✿ Mud
- ✿ A bird
- ✿ A small wildflower
- ✿ Weeds
- ✿ A crawling insect
- ✿ New leaves on a tree
- ✿ A bird's nest
- ✿ A tall wildflower
- ✿ A worm
- ✿ A flying insect



Touch these:

- ✿ A warm, sunny spot
- ✿ A shady, cool spot
- ✿ Flower petals
- ✿ A smooth rock
- ✿ Wet mud
- ✿ Tree bark

What did it feel like?

Listen for these:

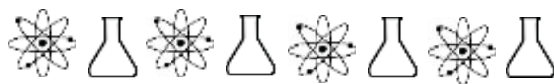
- ✿ Something moved by the wind
- ✿ A bird's song/call
- ✿ An animal's call
- ✿ An insect

What else do you hear?

Smell these:

- ✿ A flower
- ✿ Grass

What else do you smell?











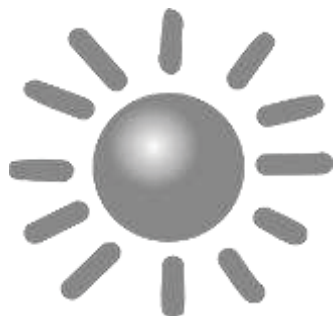
Scavenger Hunt

Use this page for your scavenger hunt if it is currently summer.





Summer

Look for these:

-  A bird flying
-  Fruit or berries
-  A crawling insect
-  Something red: _____
-  Something green: _____
-  A bird walking
-  Mushroom
-  A flying insect






Touch these:

-  Something hot from the sun
-  A smooth rock
-  Somewhere cool and shady
-  Tree bark

What did it feel like?

Listen for these:

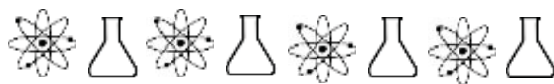
-  A flying insect
-  Something moved by the wind
-  An animal's call

What else do you hear?

Smell these:

-  A flower
-  Grass

What else do you smell?



Scavenger Hunt

Use this page for your scavenger hunt if it is currently winter.

Winter



Look for these:

- Animal tracks
- An acorn or pinecone
- Berries on a plant
- Trees with no leaves
- A bird
- A feather
- Something with thorns
- Trees with a few leaves



Listen for these:

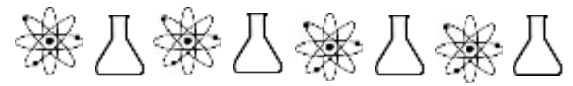
- An animal's call
- What animal did you hear?
- Something moved by the wind
- What else do you hear?

Touch these:

- Something wet
- A smooth rock
- Smooth tree bark
- Rough tree bark
- A pinecone

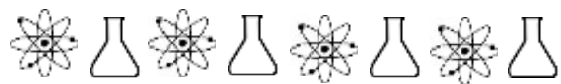
Smell these:

- Hot cocoa!
 - A crackling fire
- What else do you smell?



Soil Square Observations

Use the boxes to record your observations.



Soil Substitute Observations

Use the boxes to record your observations.

1.	2.	3.
4.	5.	6.
7.	8.	9.

1. _____

2. _____

3. _____

4. _____

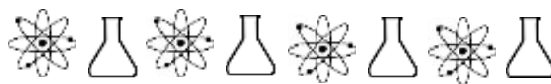
5. _____

6. _____

7. _____

8. _____

9. _____



What Did You Learn?

Answer the following questions about the overview you read. Fill in the bubble next to the correct answer. Then label the seed parts at the bottom.

Seeds are made inside a plant's _____.

- ☐ fruit ☐ leaves ☐ stem

The protective covering of a seed is called the _____.

- ☐ hilum ☐ micropyle ☐ seed coat

The scar that shows where a seed was attached to the plant is the _____.

- ☐ micropyle ☐ radicle ☐ hilum

The part of the seed through which pollen enters is the _____.

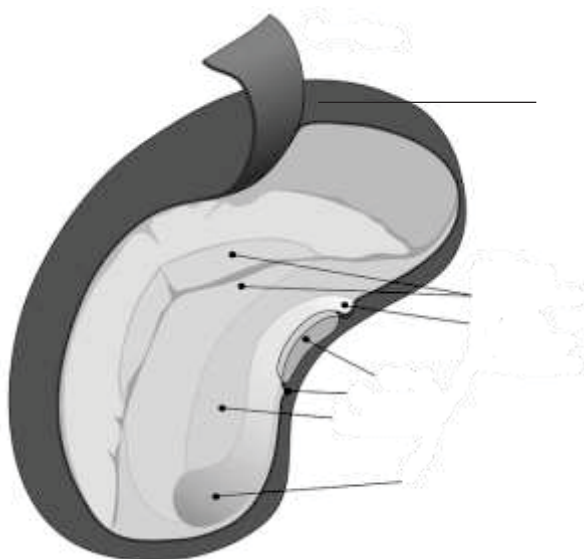
- ☐ cotyledon ☐ micropyle ☐ radicle

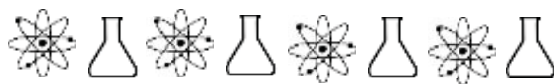
This forms a small root inside the seed.

- ☐ radicle ☐ hilum ☐ cotyledon

This provides food for the new plant as it grows.

- ☐ micropyle ☐ cotyledon ☐ seed coat





Experiment Worksheet

Fill out this worksheet as you work through the experiment.

Question: _____

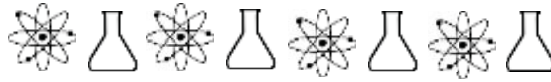
Hypothesis: _____

Materials: _____

Procedure: _____

Observations/data: _____

Conclusion: _____



Plant Categories

Write one specific type of plant in each category. You can use the internet to help you if you need to.

Angiosperms _____

Sphenopsids _____

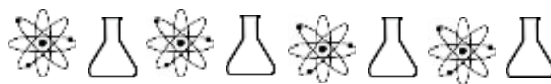
Gymnosperms _____

Ferns _____

Bryophytes _____

Algae _____





KWL Chart

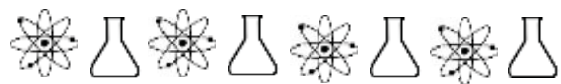
Fill in the sections of this chart as you work through the project.

Topic: _____

What I Know

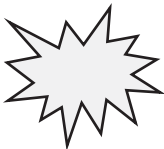

What I Want to Know

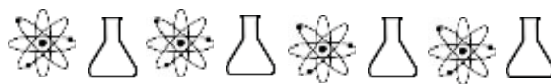
What I Learned



Reproduction Cartoon

Draw the process from pollen to fruit.

 Pollen
 Fruit



KWL Chart

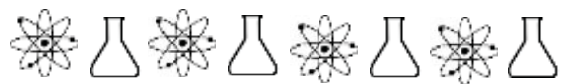
Fill in the sections of this chart as you work through the project.

Topic: _____

What I Know

What I Want to Know

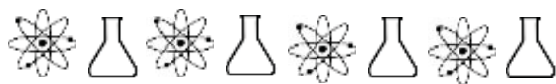
What I Learned



Mold Observations

Draw pictures or write a description of what you think your food will look like on the given days. Then draw or write what it actually looks like when the days arrive.

Hypothesis	Actual
Day 4	
Day 6	
Day 9	
Day 12	

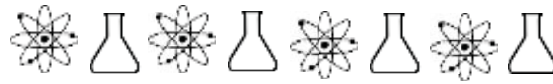


World Map

Use this world map along with your biome lapbook.

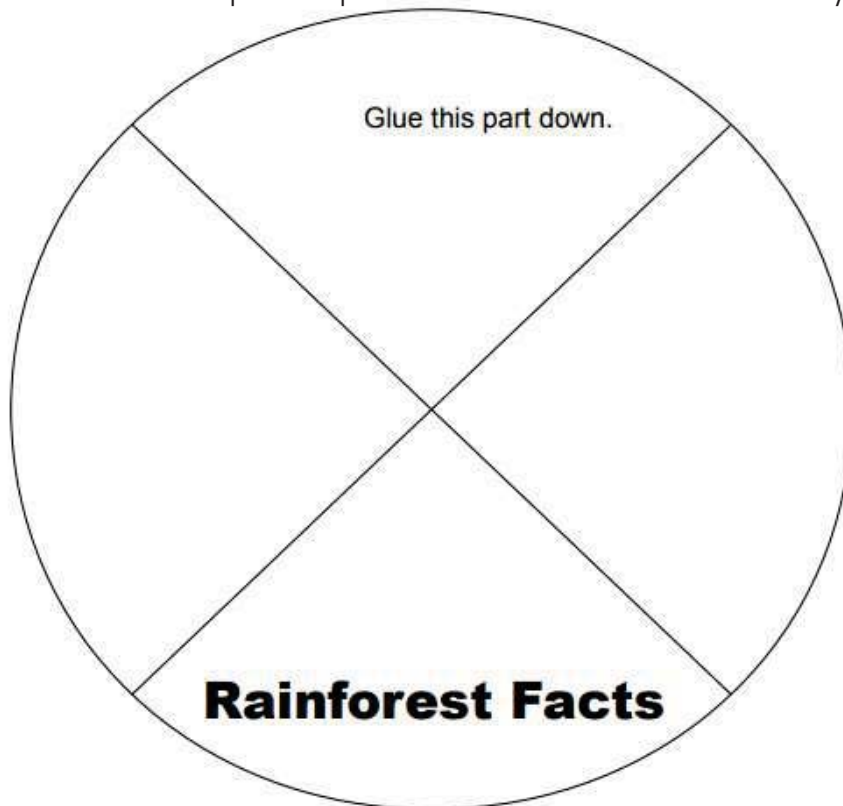


<http://www.freeworldmaps.net/outline/maps/world-map-outline.gif>

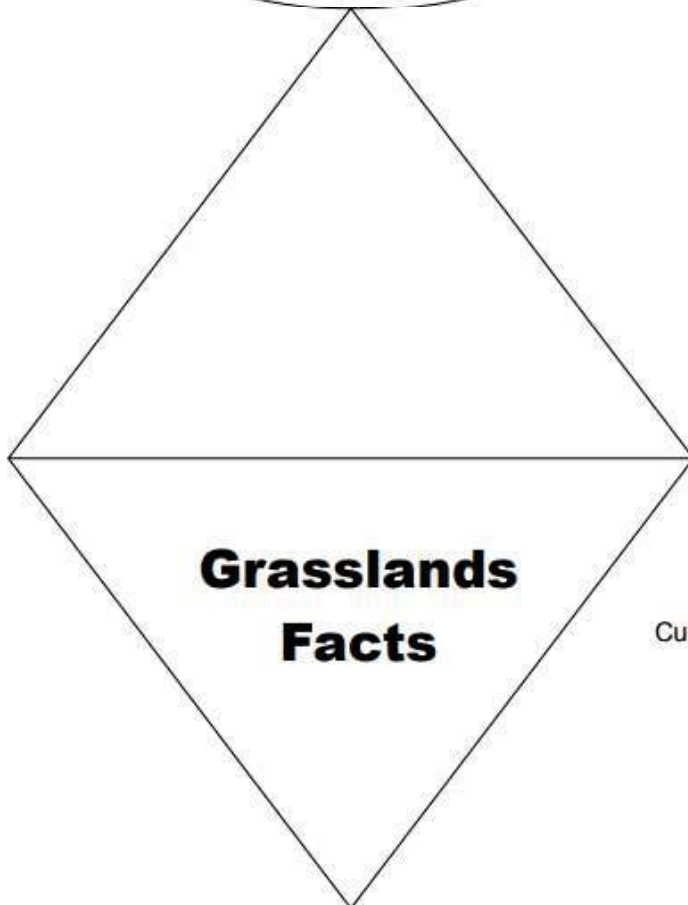


Biome Lapbook

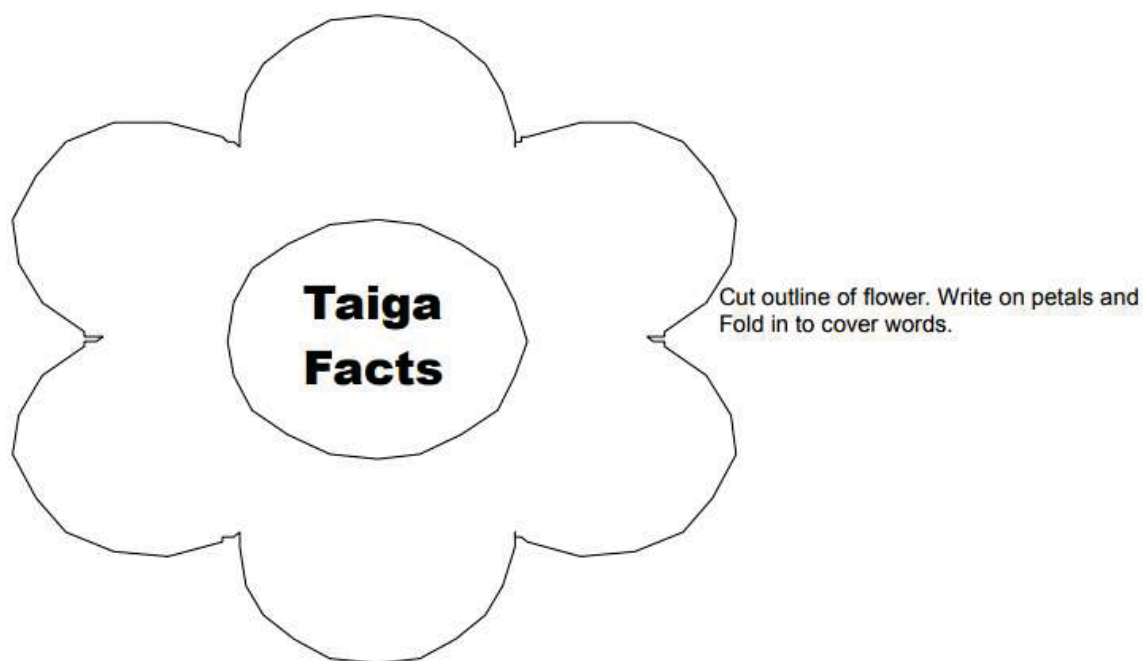
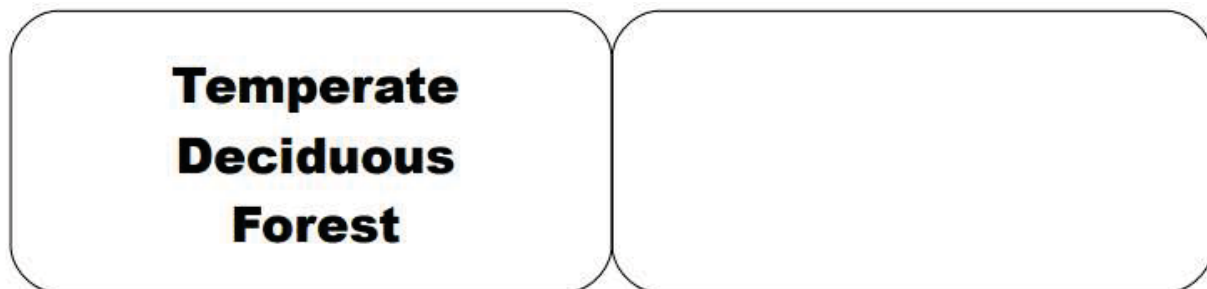
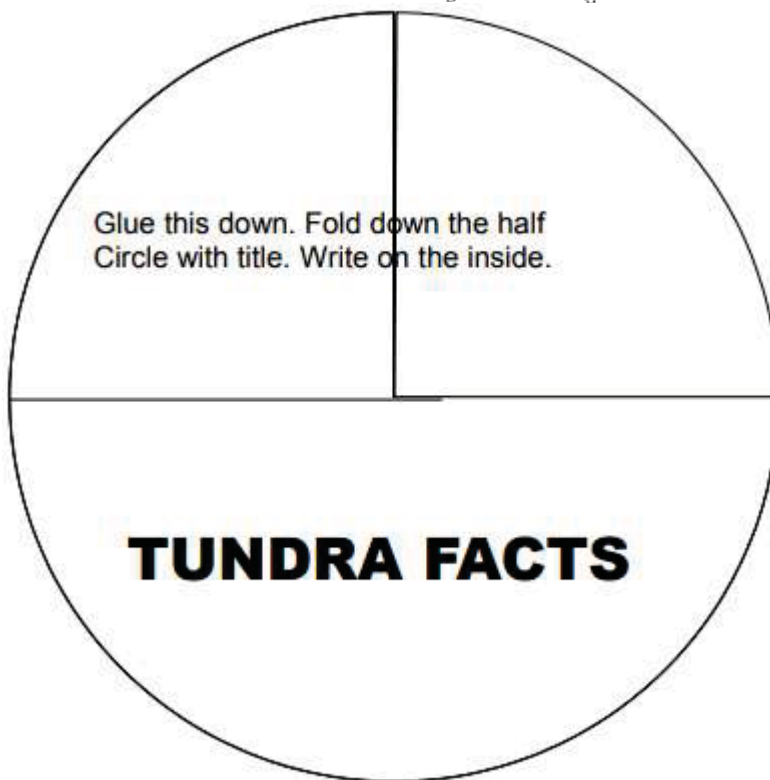
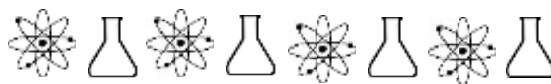
Use these lapbook pieces to record information as you learn about biomes.

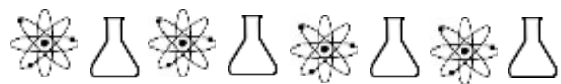


Cut out circle. Fold on all
The lines. Fold in the
Middle of each side to tuck
Inside. Write in the inside.



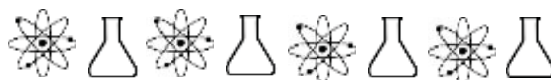
Cut out diamond and fold on center line.





<p>Cut out these two rectangles as one piece. Cut out the gray rectangle on the right.</p> <p>Cut out the rectangle below with the extra Edge as one piece. Write your facts on it. Start under the line.</p> <p>Place your facts face down so your words Will show out the window.</p> <p>Fold this rectangle over and glue along the Side and bottom. Make sure "Desert facts" Stick out the top.</p>	<div>Cut out this rectangle.</div> <div>Glue Here.</div> <div>Glue here.</div>
---	--

Desert Facts



Scientific Method

Make an observation

Pick something that interests you and observe it closely.
Is there something about it that makes you wonder?

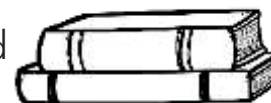


Ask a question

Be specific in your questions about who, what, where, when, why, which, or how. Make sure the questions can be measured with an experiment.

Research the subject

Gather information that pertains to your observation and your question. Begin preparation for your experiment.



Form a hypothesis

Make an educated guess about what you think will happen in your experiment. Make sure it's something that can be measured by your experiment and that it answers your question.

Conduct the experiment

Detail your materials and instructions. Repeat the process to be sure of your results. Pay attention to variables and only change one at a time to ensure accuracy.

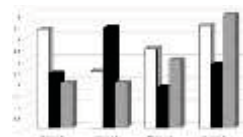


Organize your data

Make a summary of your experiment's results. You can utilize graphs or charts if helpful.

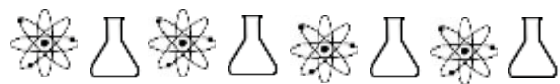
Analyze the results

Determine whether your hypothesis is true. If true, report your findings. If false or partly true, you can retry your experiment with a modified hypothesis.



Report your findings

Share your knowledge with others!



Scientific Method

Fill out the steps of the scientific method on the lines.

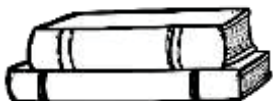
1. _____



2. _____



3. _____



4. _____



5. _____



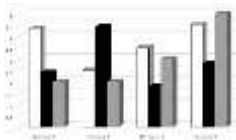
6. _____

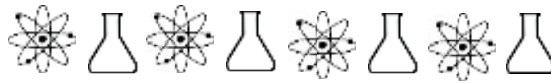


7. _____



8. _____





Form a Question

Formulate your question and fill it in here. You can cut out the pieces if you'd like to make a lapbook.



Who?

What?

Where?

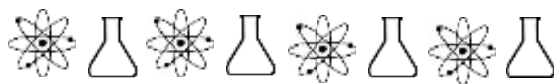
When?

Why?

Which?

How?

My Question _____



Research Notes

Use these pages to make notes on your topic.

Topic: _____

Resource 1: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 2: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 3: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 4: _____

Info: _____

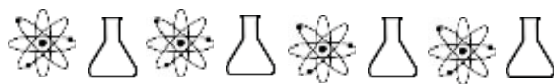
Info: _____

Info: _____

Info: _____

Info: _____

Info: _____



Resource 5: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 6: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 7: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 8: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 9: _____

Info: _____

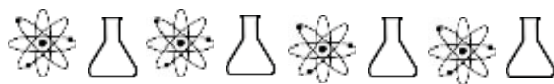
Info: _____

Info: _____

Info: _____

Info: _____

Info: _____



Hypothesis and Variables

Use this page to record your hypothesis and variables. You can cut the pieces out if you're making a lapbook.

My Hypothesis: _____



My independent variable(s):

My controlled variable(s):

Variables

Independent:

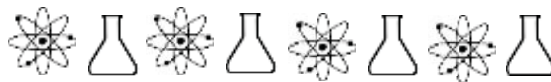
What I will
change

Dependent:

What I will be
measuring and
observing

Controlled:

What I will keep
the same

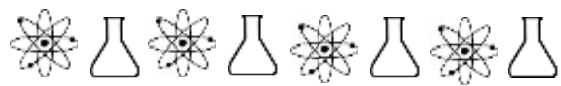


My Experiment

Use these pages to record your materials and the steps in your experiment. It's okay if you don't fill up all of the space.

My Materials: _____



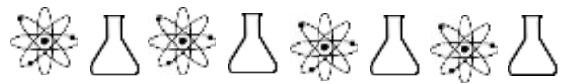


Steps in My Experiment



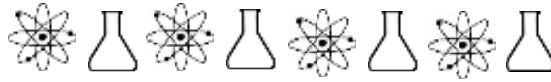












Form a Question

Formulate your question and fill it in here. You can cut out the pieces if you'd like to make a lapbook.



Who?

What?

Where?

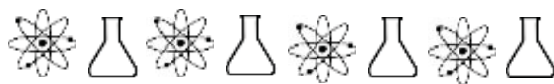
When?

Why?

Which?

How?

My Question _____



Research Notes

Use these pages to make notes on your topic.

Topic: _____

Resource 1: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 2: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 3: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 4: _____

Info: _____

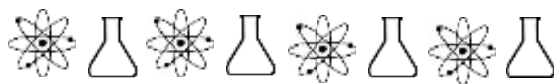
Info: _____

Info: _____

Info: _____

Info: _____

Info: _____



Resource 5: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 6: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 7: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 8: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Info: _____

Resource 9: _____

Info: _____

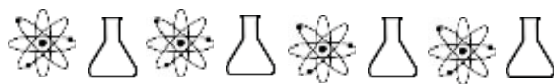
Info: _____

Info: _____

Info: _____

Info: _____

Info: _____



Hypothesis and Variables

Use this page to record your hypothesis and variables. You can cut the pieces out if you're making a lapbook.

My Hypothesis: _____



My independent variable(s):

My controlled variable(s):

Variables

Independent:

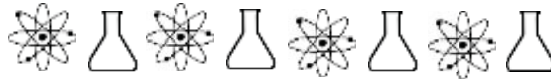
What I will
change

Dependent:

What I will be
measuring and
observing

Controlled:

What I will keep
the same

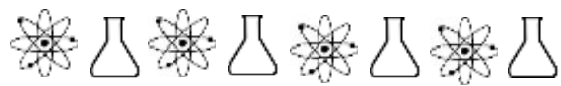


My Experiment

Use these pages to record your materials and the steps in your experiment. It's okay if you don't fill up all of the space.

My Materials: _____



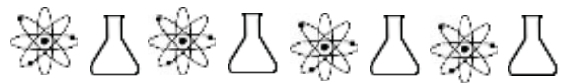


Steps in My Experiment



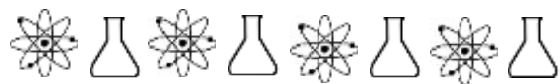












Tree Observation

Sit quietly near your tree. Take notes on your observations.

	Looking What living things do you see in and near your tree?
	Listening Do you hear animals playing or singing in the tree? Do you hear wind moving leaves or branches?
Draw the tree. Use a tape measure to record the measurement around the tree. _____	
Make a rubbing of the bark.	Touching Is the bark smooth or rough? Are the leaves soft or prickly?
Make a rubbing or trace a leaf.	Smelling What does the bark smell like? The leaves? Are there flowers on the tree?
What season is it now? What kind of tree are you observing?	Any other observations? Has the tree changed since the previous season?