

AL NOOR INTERNATIONAL SCHOOL
Riyadh, Saudi Arabia

interactive
SCIENCE

Workbook

Name: _____

Grade 1- _____

Academic Year: _____

Name _____ Date _____



Skills Handbook Part 1

Lesson 1 What questions do scientists ask?

Words to Know

Write the word next to the description it matches.

inquiry	scientists
---------	------------

1. _____ people who ask questions about the world around them
2. _____ looking for answers



Explain

3. What is something scientists do?

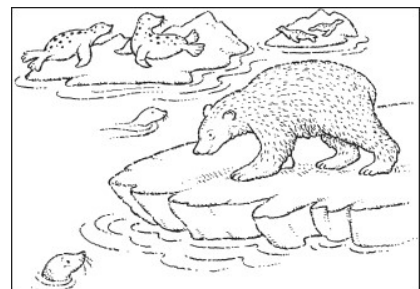
Scientists _____

4. Draw a picture of something a scientist might ask questions about.

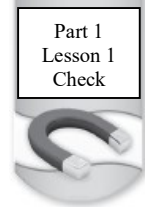


Apply Concepts

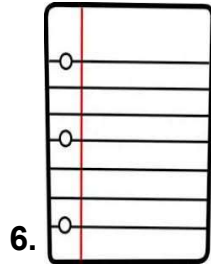
5. Look at the picture.
Think about something you could investigate.
Write a question you could ask about what you see.



Name _____ Date _____



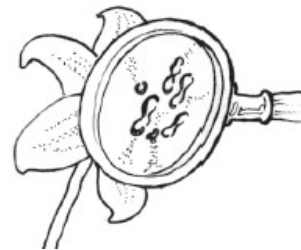
Color the things made by George Washington Carver using plant parts.



Apply Concepts

10. Look at the picture.

What question would a scientist most likely ask about this plant?





Explain

11. Why is the doctor in the picture washing hands?





Name _____ Date _____

Skills Handbook Part 1

Lesson 2 What skills do scientists use?

Words to Know

Write the word next to the description it matches.

observe	predict
---------	---------

1. _____ when you use your senses
2. _____ when you tell what might happen next



Explain

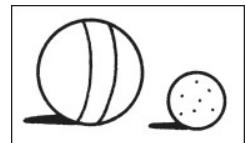
Circle **T** if the statement is true or **F** if the statement is false.

3. You have three senses to observe the world around you. T F
4. When you predict, you tell what might happen next. T F



Apply Concepts

5. Look at the picture of the two objects. Compare the objects. Write one way they are the same.



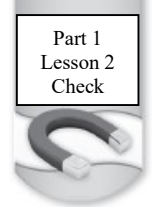
Both are _____

6. Write one way they are different.

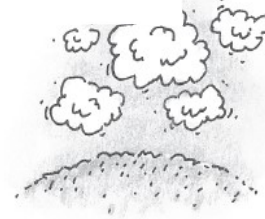
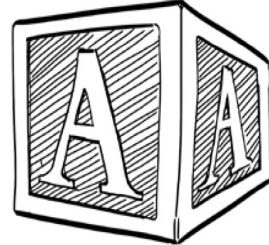
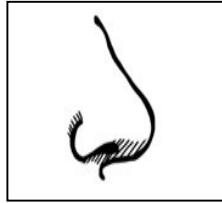
One ball _____

Name _____

Date _____



7-10 Color the things you can smell.



Apply Concepts

11. Look at the picture.

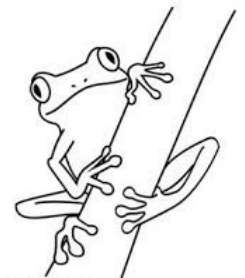
You notice the sky gets darker. Predict what might happen next.



Explain

12. If we had a tree frog in class,

how could you use your senses to learn about this animal?





Name _____ Date _____

Skills Handbook Part 1

Lesson 3 How do scientists use tools?

Words to Know

Write the word next to the description it matches.

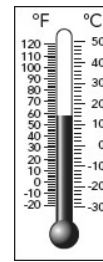
tool	measure	safety
------	---------	--------

- _____ staying out of danger
- _____ something that makes work easier
- _____ to use a tool to find the size or amount of something



Explain

Circle the correct name of each tool.



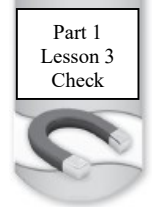
4. ruler thermometer 5. ruler thermometer



Apply Concepts

- Think about how you can stay safe when you do science activities in your classroom. Draw a picture of yourself following a safety rule.

Name _____ Date _____



Explain

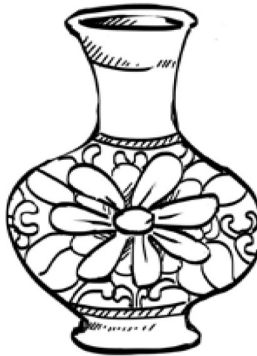
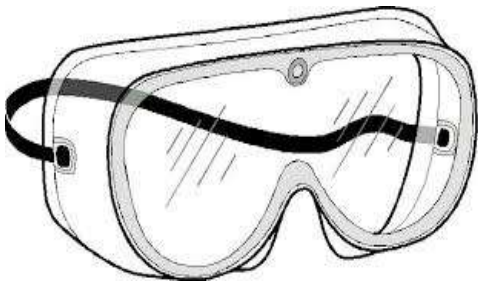
7. Look at the picture.

How would you use this tool?



8. Why is a clock a tool?

9-11. Which is **not** a piece of safety equipment:





Name _____ Date _____

Skills Handbook Pat 1

Lesson 4 How do scientists find answers?

Words to Know

Write the word next to the description it matches.

investigate	scientific methods
-------------	--------------------

1. _____ steps that help you investigate
2. _____ to look for answers to questions



Explain

3–4. Write in the missing steps in the scientific method listed below.

Ask a question.

Make your _____.

Plan a fair test.

Do your test.

Collect and record your data.

Draw a _____.



Apply Concepts

5. A scientist wants to know if seeds need water to grow. The scientist has seeds, two pots, some soil, and a watering can. Draw and label a picture to show how you would plan a test.

Name _____ Date _____

6. Which step do scientific methods include?
(Plan a fair test / Do the test only once)



Apply Concepts

7. How could you use tools to collect data on the plants' growth?

8. A person puts ice in his hot tea. A few minutes later, the ice is gone.

What questions can you ask about what happened?





Name _____ Date _____

Skills Handbook Part 1

Lesson 5 How do scientists share data?

Words to Know

Write the word next to the description it matches.

data	record
-------------	---------------

1. _____ information you collect
2. _____ when scientists write or draw what they learn



Explain

Circle **T** if the statement is true. Circle **F** if the statement is false.

3. You can only use words to show what you observe. T F
4. Charts and graphs can be used to show data. T F



Apply Concepts

5. You investigated what fruit your classmates like to eat. You found that:

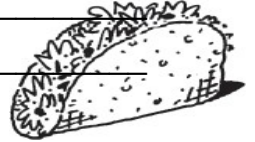
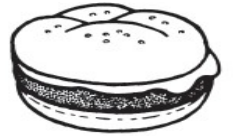
- 2 people like oranges
- 4 people like apples
- 5 people like bananas

Fill in the chart to show your data.

orange					
apple					
banana					

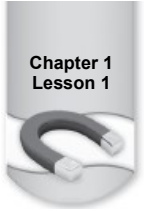
Name _____ Date _____

6. You asked five people about their favorite food. Three people liked tacos and two people liked burgers. What is the best way to show this data?



Explain

7. How can you record data?



Name _____ Date _____

Chapter 1

Lesson 1 How do we use energy?

Words to Know

Write the word next to the description it matches.

electricity	energy
-------------	--------

- _____ something that can cause change or do work
- _____ energy that makes lamps and other things work



Explain

Answer the questions on the lines below.

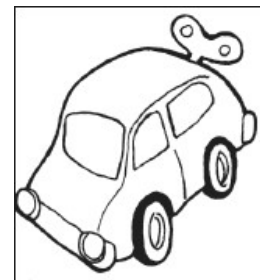
- How do cars get the energy they need to move?

- Draw something that uses electricity.



Apply Concepts

- Look at the picture. How could you get this toy car to move? Tell how you get the stored energy to change to moving energy.



Chapter 1
Lesson 1
Check

Name _____ Date _____



Explain

6. Look at the picture. What kind of energy makes this computer work?



List three examples of fuel:

7. _____

8. _____

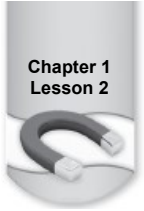
9. _____

10. Look at the picture.

Airplanes and cars get energy to move in a similar way.

What gives airplanes the energy they need to move?





Name _____ Date _____

Chapter 1

Lesson 2 What gives off heat?

Words to Know

Write a sentence defining the word in the box.

heat

1. _____



Explain

Answer the questions below.

2. Draw three things that give off heat.



3. How can people make heat?

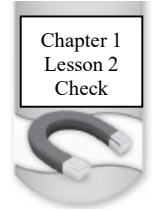


Apply Concepts

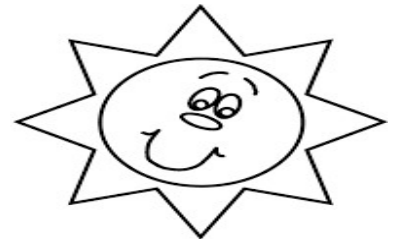
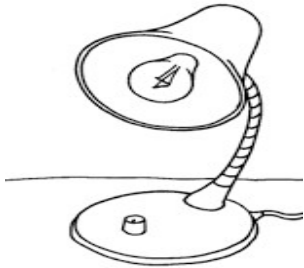
4. Look at the picture. Write how heat from fire can be used.



Name _____ Date _____



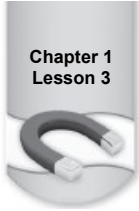
5-8. Color the things that can give off heat.



Explain

9. Look at the picture. Why is the snowman melting?





Name _____ Date _____

Chapter 1

Lesson 3 What is light?

Words to Know

Write the definition of the word in the box below.

shadow

1. _____



Explain

Answer the questions on the lines below.

2. List three things that can make light.

3. Why do people make shadows?



Apply Concepts

4. Look at the picture. Use what you know about light to tell how the man can see himself in the mirror.



Name _____ Date _____

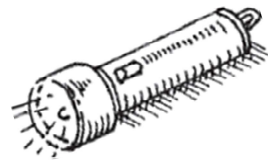


Explain

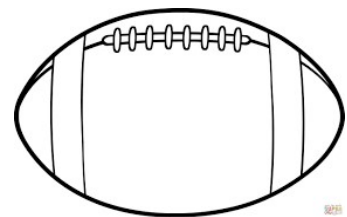
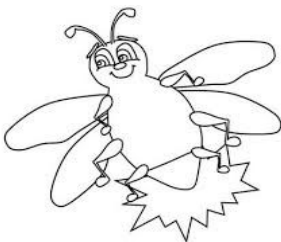
5. Think about a groundhog outside in the sunlight.
How does a shadow form?



6. Look at the picture. You shined a flashlight on an object, and light reflected, or bounced back. What kind of object could this be?



7-10. Write (L) under the object that makes light.



Chapter 1

Lesson 4 What is sound?

Words to Know

Circle the word that best completes the sentence.

1. (Vibrate, Pitch) means to move back and forth very fast.



Explain

Answer the questions below.

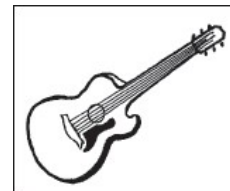
2. Draw something that would make a soft sound and something that would make a loud sound.

3. Draw something that can make a high sound and something that can make a low sound.



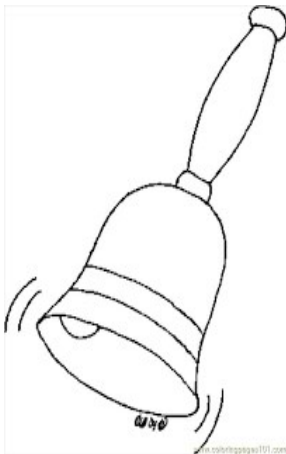
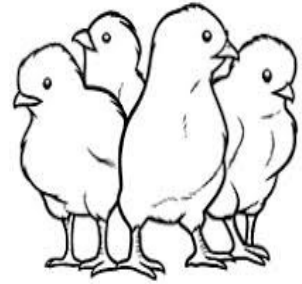
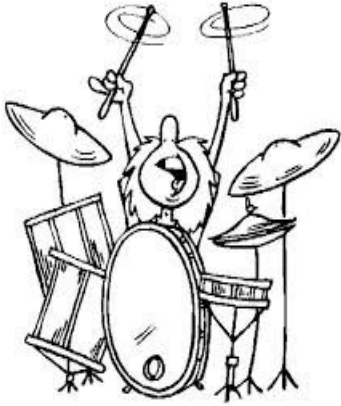
Apply Concepts

4. Look at the picture.
How can you make sound using the guitar?



Name _____ Date _____

5-8. Color the picture that makes loud sound.





Skills Handbook Part 2

Lesson 1 What is technology?

Words to Know

Circle the word that best completes the sentence.

1. (Discovery, Technology) is using science to solve problems.



Explain

Answer the questions below.

2. A seat belt is technology. Write how it helps people.

It helps people _____

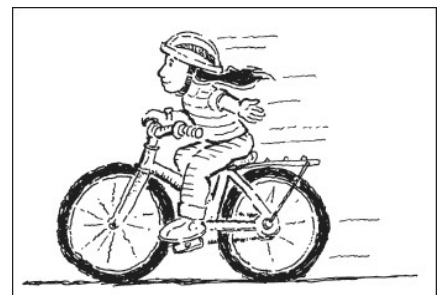
3. Draw an example of technology.



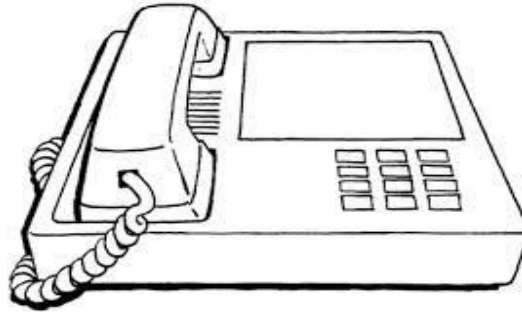
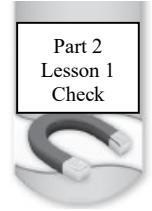
Apply Concepts

4. Look at the picture.
Circle two kinds of technology shown here.

Write how each one helps people.



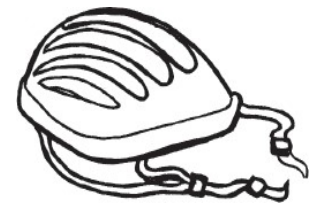
Name _____ Date _____



Explain

Answer the questions below.

5. How are a pencil and a telephone alike?



6. What problem does using this technology solve?



Apply Concepts

7. Look at the picture.

Which problem does using this technology solve?





Name _____ Date _____

Skills Handbook Part 2

Lesson 2 What are objects made of?

Words to Know

Write the word that goes with each definition.

natural	human-made
---------	------------




- _____ something made by people
- _____ something not made by people



Explain

Look at the objects. Tell what each is made of. Use these words.

natural human-made both

		
3. _____	4. _____	5. _____

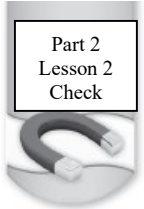


Apply Concepts

- You have an apple and a plastic lunch box. Which is a natural material? Which is made by people? Tell how you know.

Name _____

Date _____

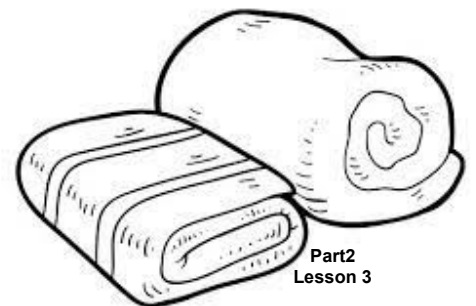


Explain



7. What makes up the bag of soil?

8-11. Color the objects made out of cotton.



Part 2
Lesson 3

Name _____ Date _____

Skills Handbook Part 2

Lesson 3 What is the design process?

Words to Know

Write the word that goes with each definition.

goal	solution
-------------	-----------------

- _____ something that solves a problem
- _____ something you want to do



Explain

- Read the steps of the design process. Write them in order.

<p>Steps of the Design Process</p> <p>record and share</p> <p>plan and draw</p> <p>make and test</p> <p>find a problem</p> <p>choose materials</p> <p>state a goal</p>



Apply Concepts

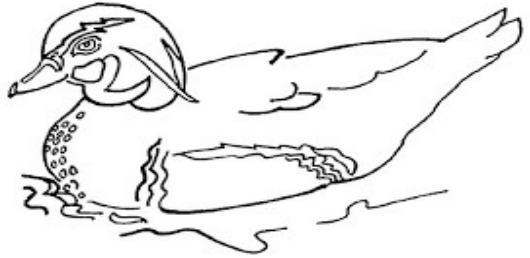
- Name a problem you could solve using the design process. List your goal. Tell how you would test your plan.

Name _____ Date _____



Explain

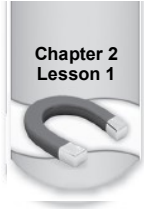
5. Write a solution to help wood ducks find shelter.
What materials will you use?



6. Janna wants to make streamers for her bike.
What should she do now?



7. You make a plan. Your solution does not work.
What can you do now?



Name _____ Date _____

Chapter 2

Lesson 1 What are some groups of living things?

Words to Know

Write the word that completes each sentence.

backbone	mammals
----------	---------

1. A _____ is the set of bones along the middle of the back.
2. Most _____ have fur or hair.



Explain

3. Draw an X on the bird.

A.



B.



C.



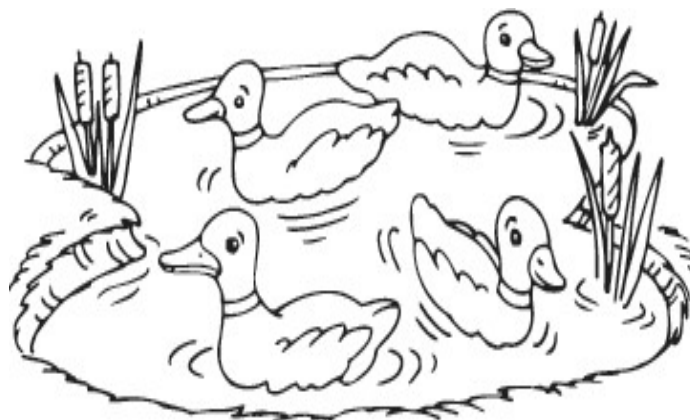
4. Look at the picture. Circle the sentence that matches the picture.

- A. Scientists group plants.
- B. Some plants do not have flowers.
- C. Plants with flowers make seeds.



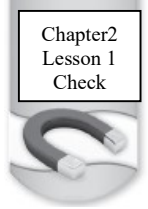
Apply Concepts

5. Look at the picture. Color the animals yellow. Circle the plants.

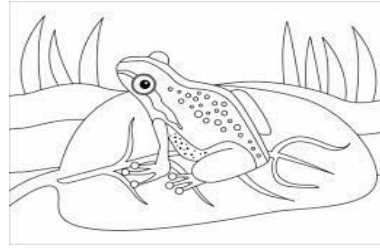


Name _____

Date _____



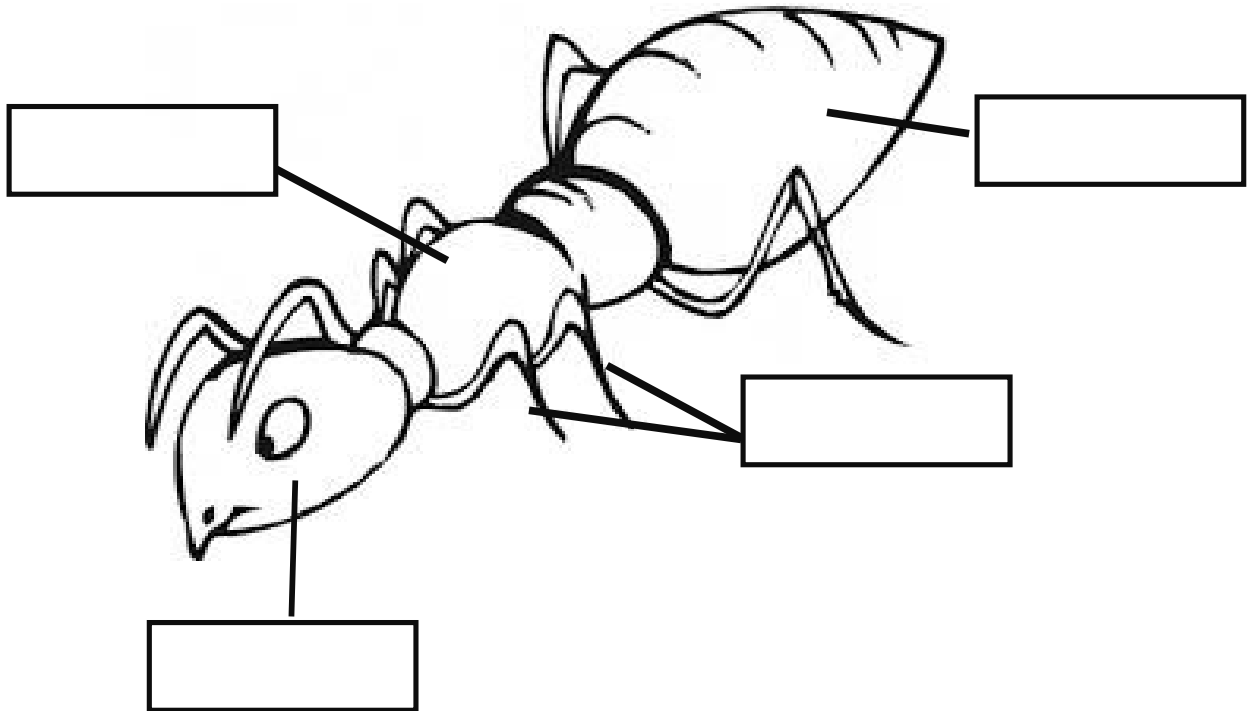
Explain

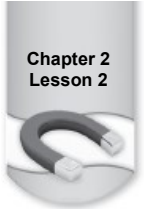


6. Which group does a frog belong to?

7-10. Name the body parts of an ant (Insect)

legs	abdomen	head	thorax
------	---------	------	--------





Name _____ Date _____

Chapter 2

Lesson 2 What are some parts of plants?

Words to Know

Write the word that completes each sentence.

root	leaf	stem
------	------	------

1. A _____ moves water through the plant.
2. Food is made in the _____ of a green plant.
3. A _____ takes in water from the soil.



Explain

4. Put an X on the flower.

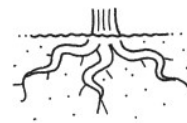
A.



B.



C.



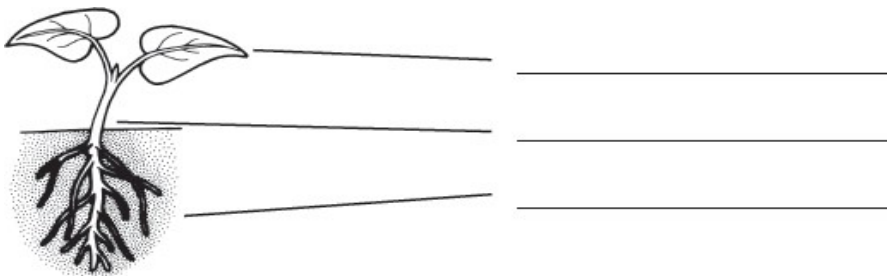
5. Circle the plant part that has seeds.

- A. root
- B. stem
- C. fruit

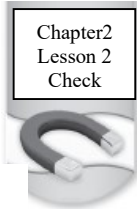


Apply Concepts

6. Look at the picture of the plant. Label the root, stem, and leaf.

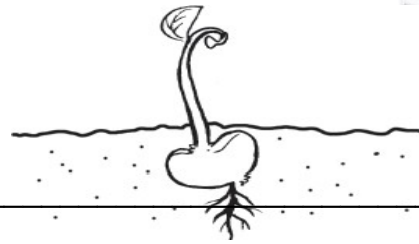


Name _____ Date _____



7. Look at the picture.

Which part holds plants in the ground?



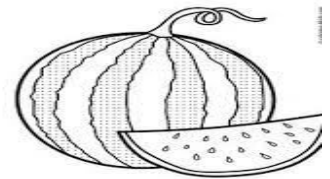


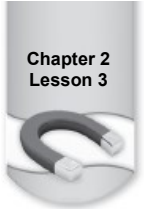
Explain

8. What parts do you see on the Iris?



9. How might having many seeds help the watermelon?





Name _____ Date _____

Chapter 2

Lesson 3 How do plants grow?

Words to Know

Write the word next to the description it matches.

life cycle	seedling
------------	----------

- _____ a very young plant
- _____ the way a living thing grows and changes



Explain

Answer the question below.

- What is the difference between a seedling and an adult plant?

Draw a picture of a seedling. Then draw a picture of an adult plant.



seedling

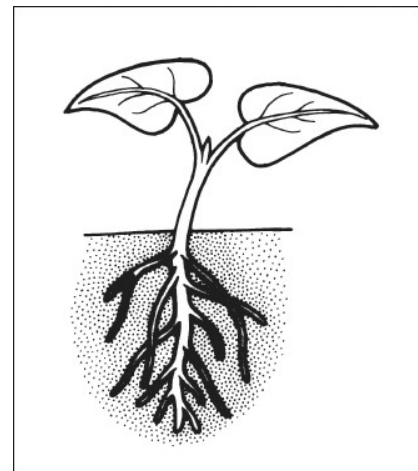


adult plant

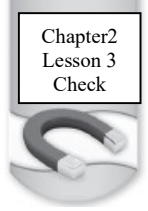


Apply Concepts

- Look at the picture. Label the roots with an **R**, stem with an **S**, and the leaves with an **L**.
What must grow in order for a seed to grow into a plant?

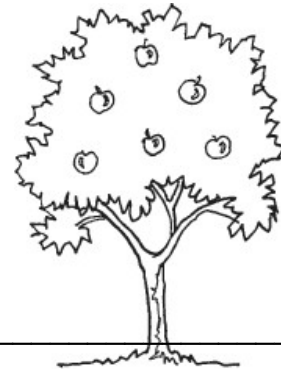


Name _____ Date _____

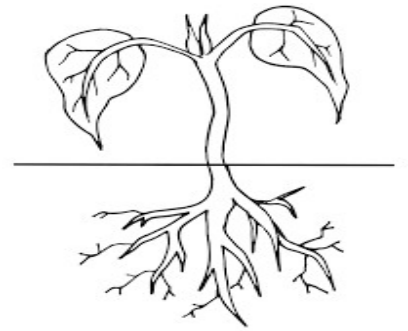


Explain

5. What happens first as a seed grows into an apple tree?

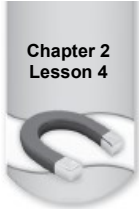


6. In what direction do the roots and stem of a seedling grow?



7. Look at the picture.
Tell what plant part is shown.





Name _____ Date _____

Chapter 2

Lesson 4 How do some animals grow?

Words to Know

Write the word that completes each sentence.

life cycle	nymph
------------	-------

1. A _____ is a kind of young insect.
2. A _____ is the way a living thing grows and changes.



Explain

3. Circle the picture that shows a baby bird.

A.



B.



C.



4. Circle the sentence that tells about the life cycle of a sea turtle.

- A. A sea turtle swims.
- B. A sea turtle grows and changes.
- C. A sea turtle looks like its parents.



Apply Concepts

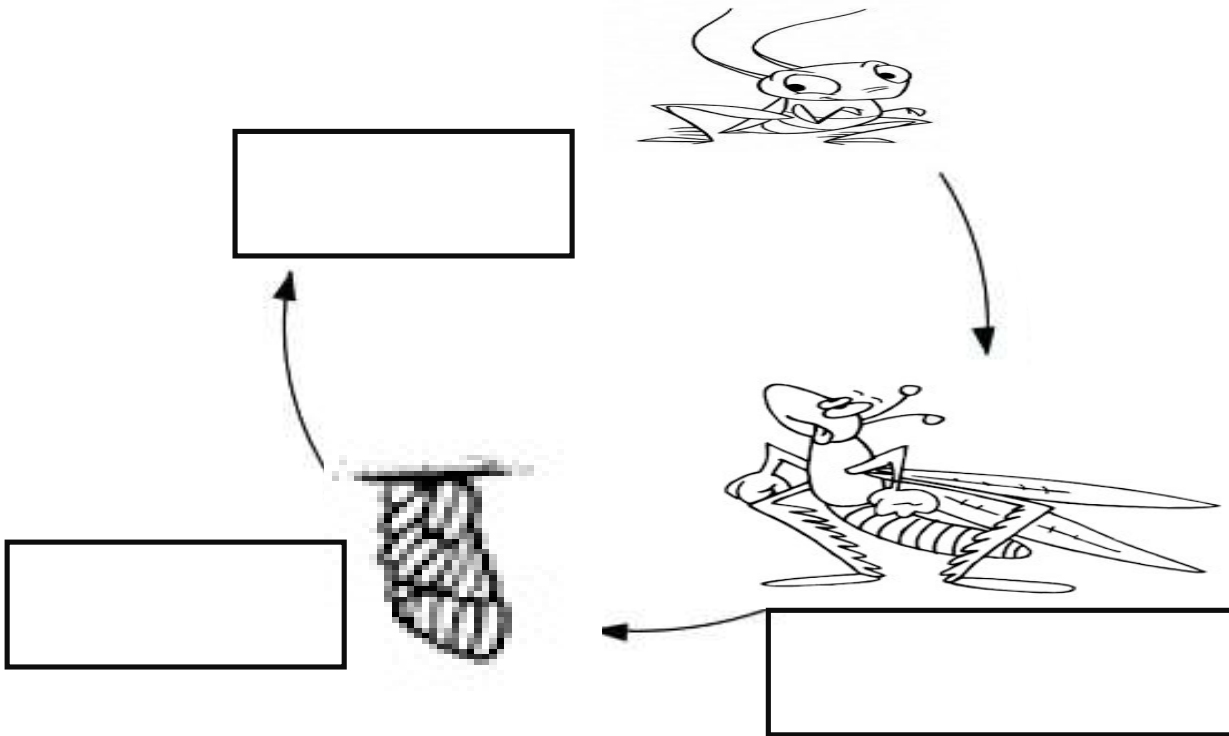
5. Look at the picture. Tell how the baby bunny is different from the grown bunny.



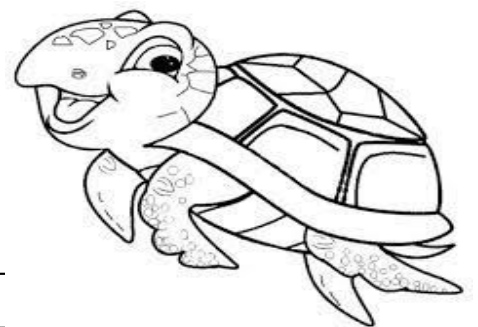
Name _____ Date _____

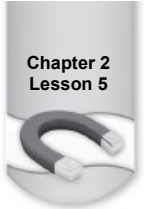
6-8. Name the different stages of a grasshopper's life cycle:

Nymph	Grow grasshopper	Eggs
-------	------------------	------



9. Which stage happens first in the lifecycle of a sea turtle?





Name _____ Date _____

Chapter 2

Lesson 5 How are living things alike their parents?

Words to Know

Write the word that completes each sentence.

young	parent
-------	--------

1. A kitten is a _____ cat.
2. A living thing that has young is a _____.



Explain

3. Put an X on the young tree.

A.



B.



C.



4. How is the puppy different from its parent?

- A. It has more ears.
- B. It is smaller.
- C. It is bigger.



Apply Concepts

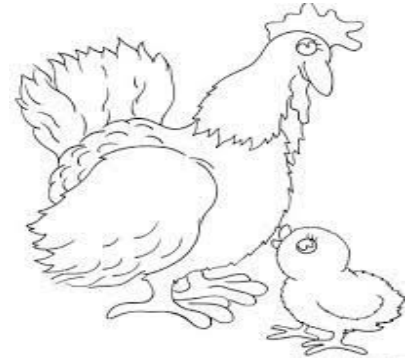
5. Look at the picture. Draw what the duck's young might look like. Tell one way they are the same.



Name _____ Date _____

6. Living things of one kind are _____.

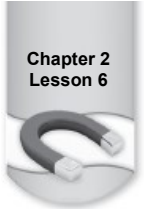
- A. alike and different
- B. always the same size
- C. always the same color



7-9. Name parts that both young and parent chicken have:

10. Think about what you know. List two babies that look like their parents.
List two other babies that do not look like their parents.

Alike	Different



Name _____ Date _____

Chapter 2

Lesson 6 How are groups of living things different?

Words to Know

Write the word that completes each sentence.

herd	different	alike
------	-----------	-------

1. Plants that are the same are _____.
2. Short giraffes and tall giraffes are _____.
3. A _____ is a group of animals that stays together.



Explain

4. Put an X on two trees that are different.



Apply Concepts

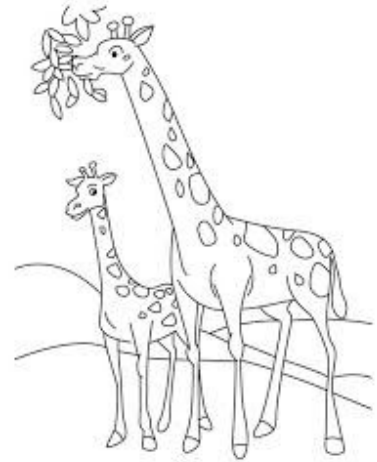
5. Look at the picture. Tell how these animals are different.



Name _____ Date _____

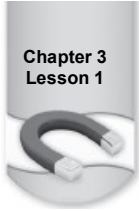


Explain



6. How does a giraffe's neck help it get food?

7. How are the giraffes shown above alike?



Name _____ Date _____

Chapter 3

Lesson 1 What is the sun?

Words to Know

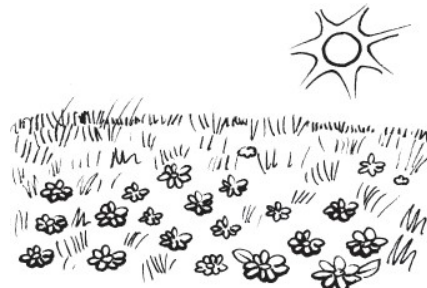
Draw a line to match the word with its definition.

- | | |
|---------------------------------|-----------|
| 1. the nearest star to Earth | • light |
| 2. something that keeps us warm | • the sun |
| 3. something that helps us see | • heat |



Explain

4. Look at the picture. Circle the sentence that matches the picture.
- A. The sun warms the water.
 - B. The sun can hurt your eyes.
 - C. Plants need the sun to grow.

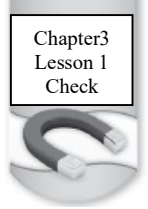


Apply Concepts

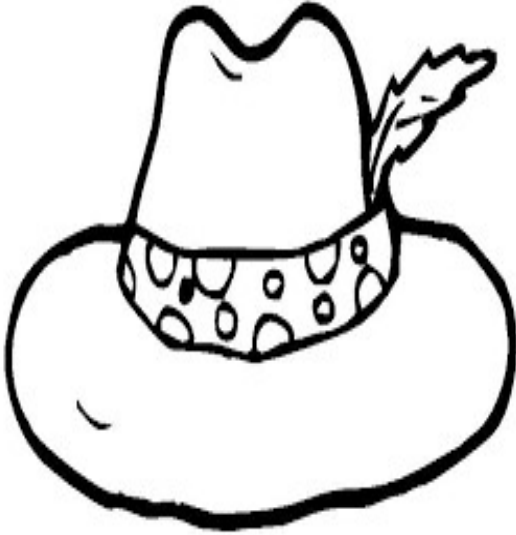
5. Look at the picture. Draw two things these children can wear to protect themselves from the sun.

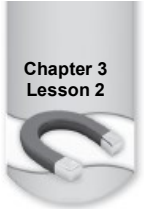


Name _____ Date _____



6-9. Color the things that protect you from the sun.





Name _____ Date _____

Chapter 3

Lesson 2 What causes day and night?

Words to Know

Write the word that completes each sentence.

rotation	moon
----------	------

1. Earth makes one _____ every day.
2. The _____ moves around Earth.



Explain

3. Put an X on things that you see in the day sky.



4. Circle the sentence that tells about rotation.
 - A. Light from the sun shines on the moon.
 - B. Earth spins around and around.
 - C. You may see birds in the day sky.



Apply Concepts

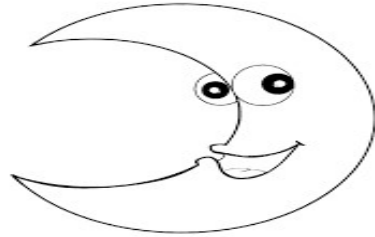
5. Look at the picture. Label day and night. Write how you know.





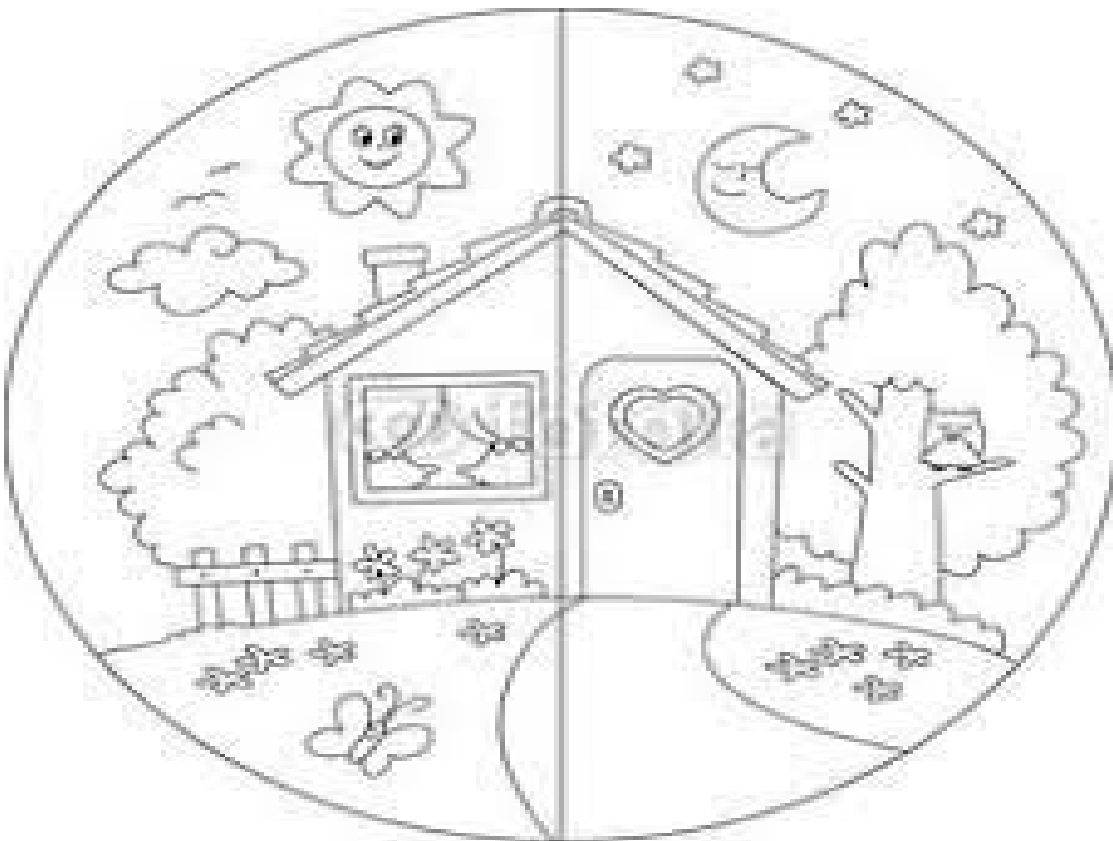
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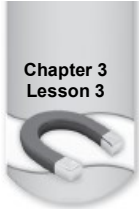
6. Where does the light of moon come from?



7. What causes day and night?

8. Use **Blue** to color the day sky and **Black** to color the night sky





Name _____ Date _____

Chapter 3

Lesson 3 What are the four seasons?

Words to Know

Circle the word that best completes the sentence.

1. My favorite (summer, season) is fall.



Explain

Answer the questions on the lines below.

2. List the missing seasons in the correct order.
spring

3. Write one thing that can happen in winter.

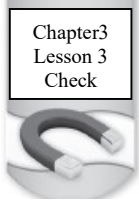
4. Which season is the warmest season?



Apply Concepts

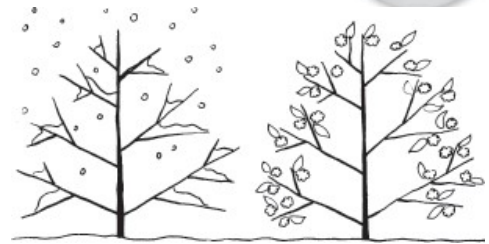
5. Look at the four children in the picture.
Use the clues to figure out which season each child shows.
Label the correct season.





Name _____ Date _____

6. Look at the tree in two different seasons in the picture.
Which seasonal changes are shown here?



7. Look at the picture.
What season is it?



8. Daylight is longest in _____.
A. summer
B. fall
C. winter

9. Write about the changes that happen outside from summer to fall where you live.
