

pennacool

Leaders in Online Education

**CURRICULUM  
- ALIGNED**

# Science & Agri-Science

## Infant 1

**Bonus Offer Online**

**Self-Correcting Exercises  
Videos, Games &  
Great Prizes!**

**SAMPLE**



**pennacool.com Infant 1 Science**

**Name:** \_\_\_\_\_

**Teacher:** \_\_\_\_\_

**School:** \_\_\_\_\_

### Bonus Offer Online

This book gives you access to additional Science & Agri-Science videos, quizzes, games and prizes on pennacool.com.

Log onto pennacool.com and click on "Workbooks" to learn more!

Bonus Points Code: Agrisci23

Author: Beverly-Ann Mitchell & Jeunisse Mohon

Design: Studio Curio

The contents of this book are protected by copyright laws, and any unauthorized reproduction or distribution is strictly prohibited.



# Table of Contents

## Science

### Individuals and Groups

|                            |    |
|----------------------------|----|
| 1. Parts of the Body.....  | 6  |
| 2. Importance of Food..... | 14 |
| 3. Personal Hygiene.....   | 22 |

### Form and Function

|   |    |
|---|----|
| 4. Everyday Structures and Simple Machines..... | 28 |
|---|----|

### Systems and Interactions

|                         |    |
|-------------------------|----|
| 5. Habitats.....        | 38 |
| 6. Types of Forces..... | 49 |

### Conservation and Sustainability

|                                 |    |
|---------------------------------|----|
| 7. Types of Energy.....         | 52 |
| 8. Reduce, Reuse, Recycle!..... | 56 |

## Agri-Science

|   |    |
|---|----|
| 1. Agricultural Plants.....                         | 61 |
| 2. Agricultural Animals: Livestock and Poultry..... | 67 |
| 3. Agricultural Buildings, Tools and Equipment..... | 75 |
| 4. The Food We Eat.....                             | 78 |

# A Note to Parents & Teachers

At pennacool.com we strive to motivate students by making learning fun, exciting and rewarding. We produce high-quality content by partnering with teachers and graphic designers to create online and printed content for all primary school students — ensuring no child is left behind.

This book's layout, illustrations and other visual elements have been carefully selected with the student in mind to make learning more enjoyable.

## Key Features

### Two Subjects, One Book (Science + Agri-Science)

- Lighter load for students' book bags
- More affordable for parents
- More convenient for teachers

### Website integration

- Additional online videos, quizzes, and games available to students and teachers
- Gain points for a chance to win great prizes

### Presentation

- Curriculum-aligned content
- Easy-to-read font
- Gamified content, eye-catching and visually appealing to students

Throughout this book you may see the following icons. Here's what they mean:

BONUS CONTENT



Online content that can be found on pennacool.com like: videos, quizzes and games. Teachers can also find printable worksheets that can be used in class. Follow the steps below to find the content as they appear in the book.



This icon represents an experiment that can be done.



EXPERIMENT

RESEARCH IT!



This icon lets you know that this activity requires you to do some research.

FUN FACT!

This icon indicates additional interesting information relating to the topic.



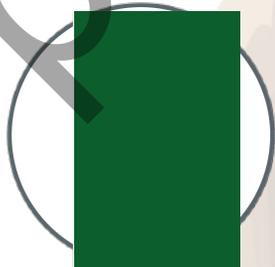
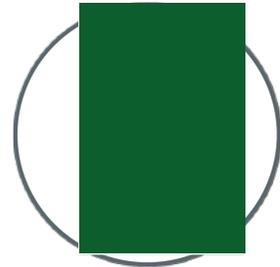
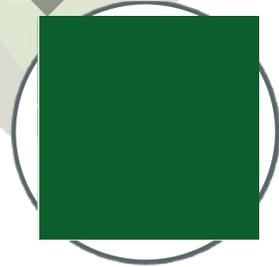
# 1. Parts of the Body



This is my body. It is made up of many parts.



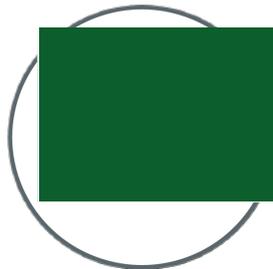
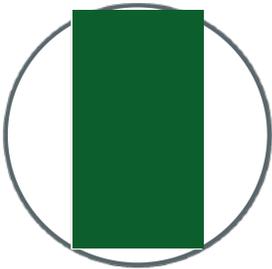
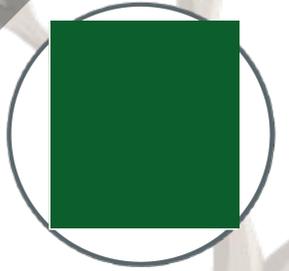
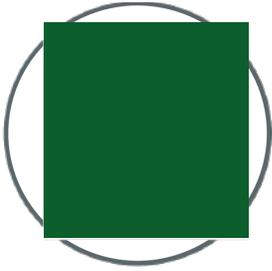
Draw a line from the named body part to where it is found on your body.



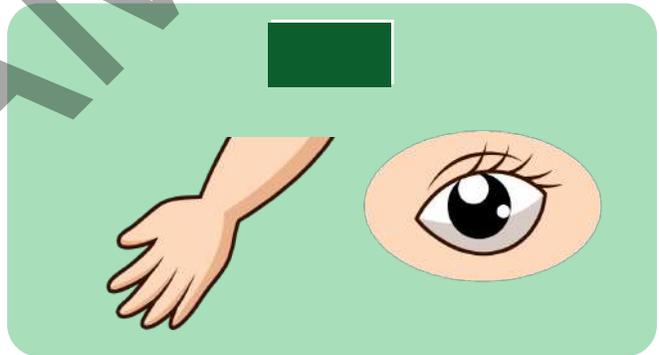
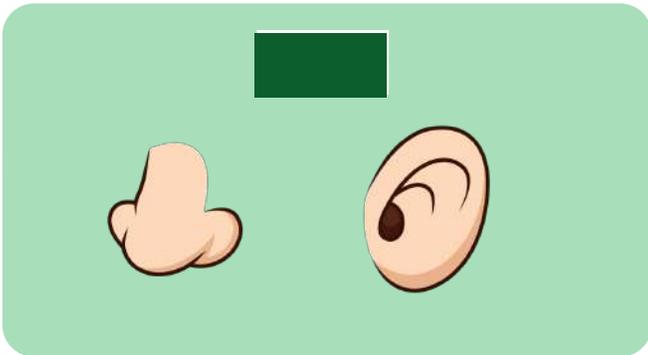
This is my face.



Draw a line from the named body part to where it is found on your face.



Circle the body part we use for each sense.



My body can do lots of amazing things.

We use our  to   
Circle the picture of the item you would **like** to smell.



We use our  to   
Circle the picture of a **blue** ball.



We use our  to  around. Circle the picture of the item we move with our feet.



We use our  to  Circle the picture of the item that we eat.



**I am special. There is no one like me.**

Draw or stick a picture of yourself here.

Decorate the border of the page in beautiful colours that you like!



**BONUS CONTENT**



Pennacool.com → Workbooks → Infants 1 Science Workbook → Bonus Content

# Universal Children's Day



Universal Children's Day is celebrated on  
**November 20th** every year.

It reminds children that they have

## Rights!



HEALTH



SHELTER



PLAY



FAMILY

EDUCATION



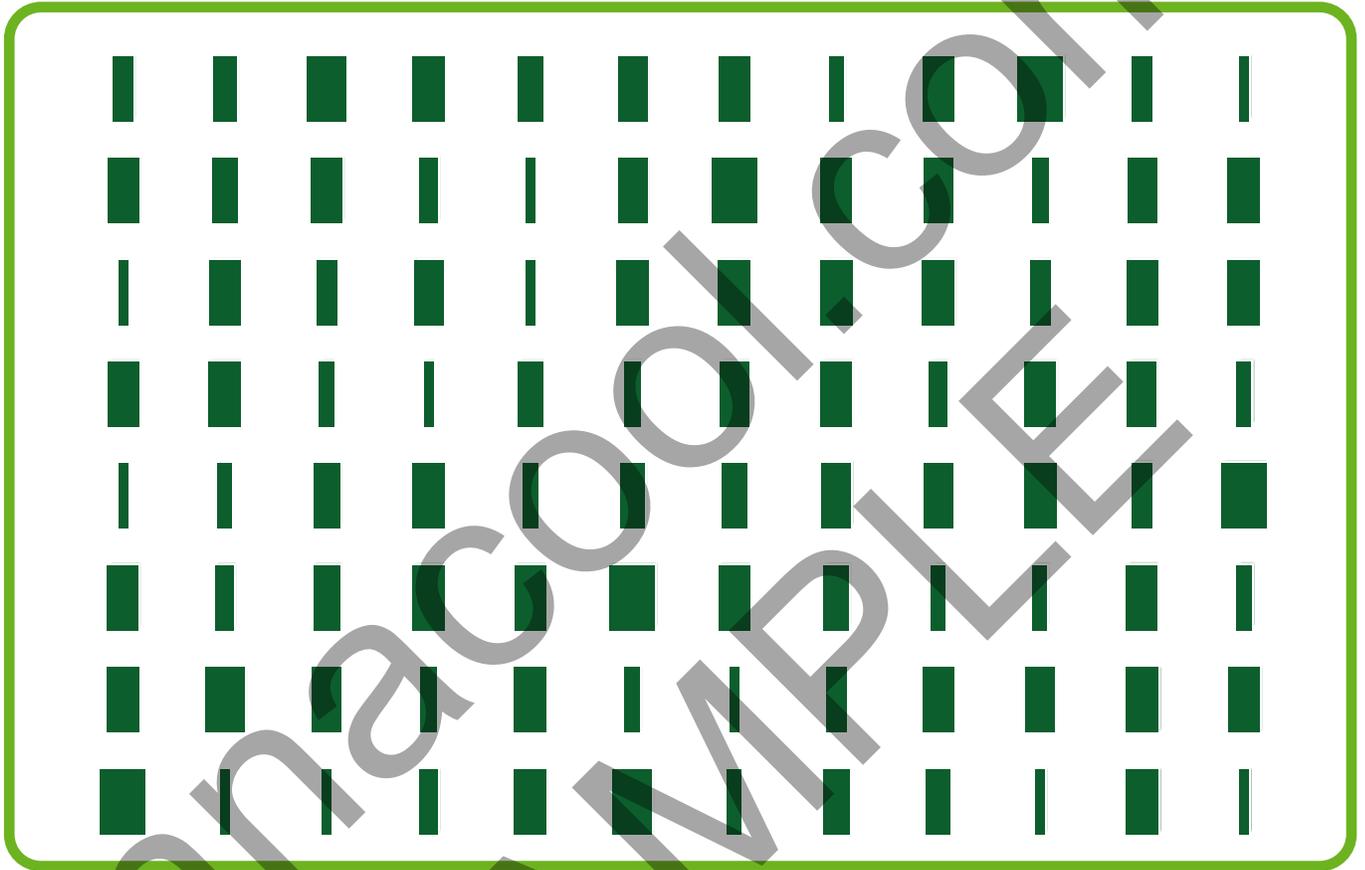
FOOD

LIFE

PROTECTION



Can you find all the parts of the body below?



eyes  
legs

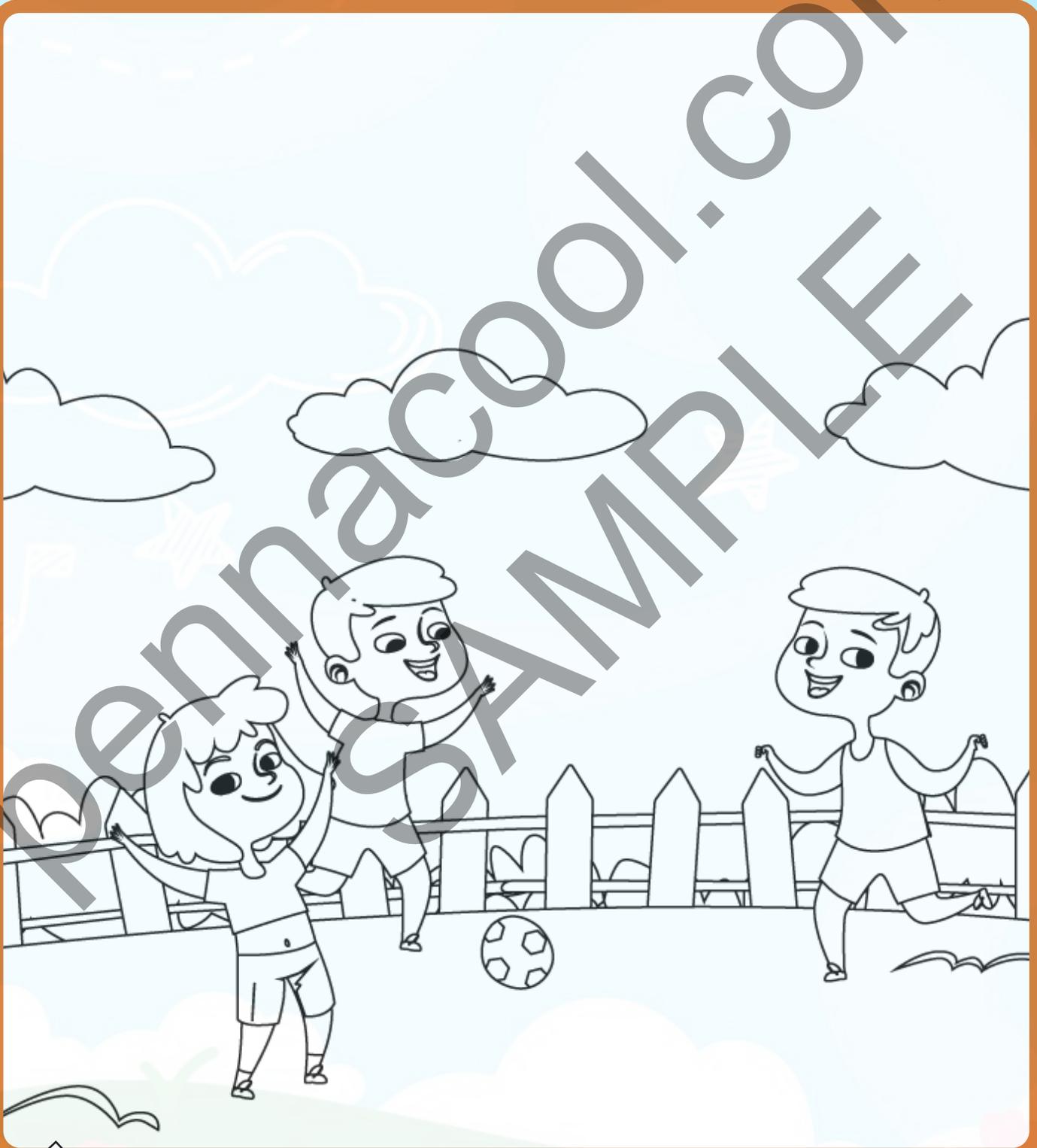
arm  
ears

mouth  
nose



## 2. The Importance of Food

Food gives us energy!  
Colour the image below.



Food gives us the energy to work.

Can you solve these sums?

$$\boxed{\text{!}} + \boxed{?} = \boxed{\phantom{00}}$$

$$\boxed{4} - \boxed{?} = \boxed{\phantom{00}}$$



BONUS CONTENT



Pennacool.com → Workbooks → Infants 1 Science Workbook → Bonus Content

Food gives us energy to play.

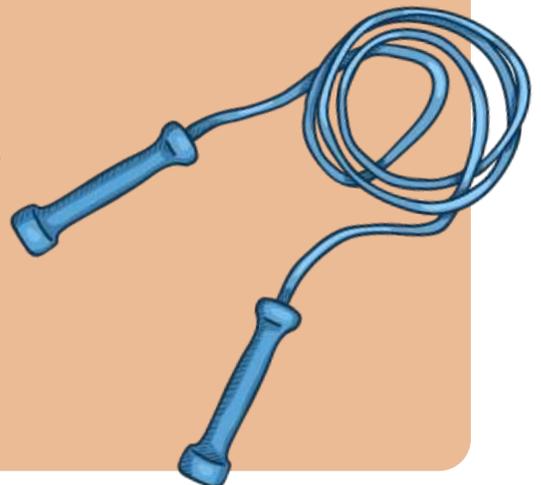


How many \_\_\_\_\_ can you do? \_\_\_\_\_

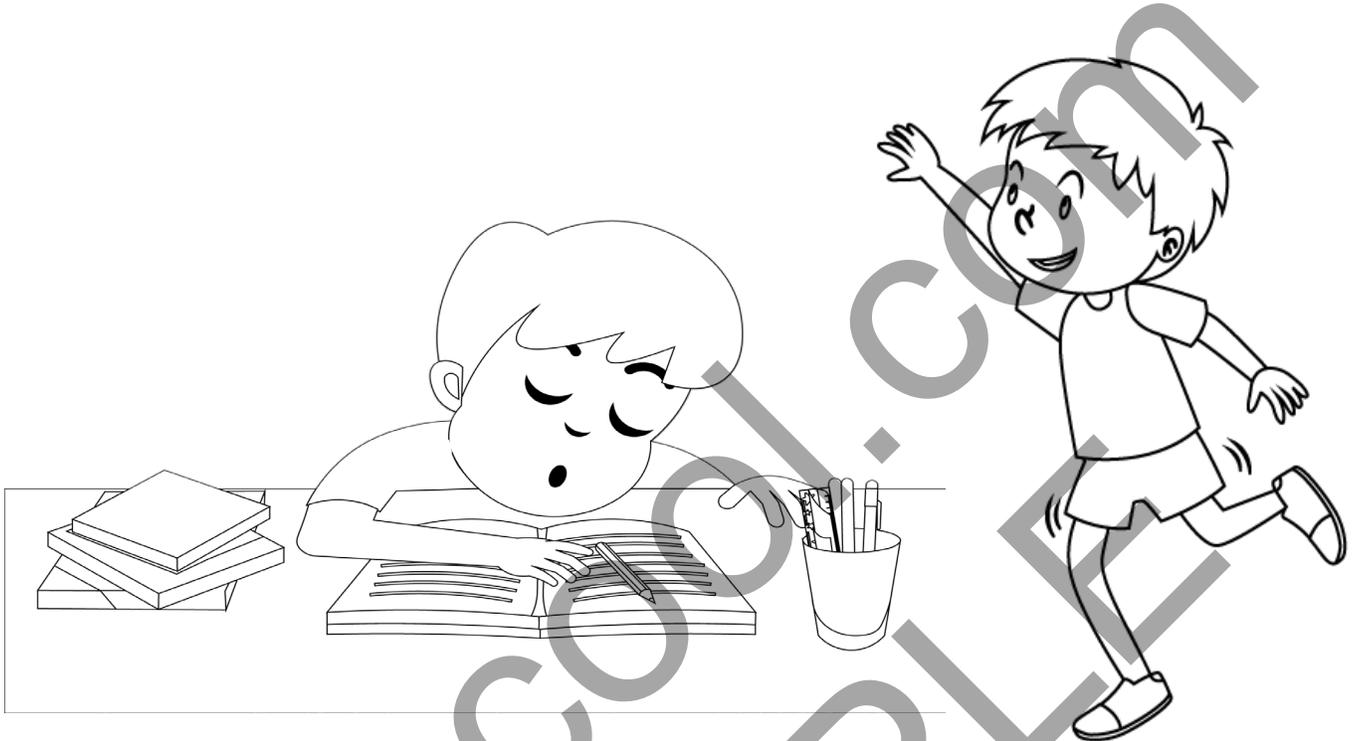
\_\_\_\_\_ can you jump in a skipping rope?

How many push ups can you do?

\_\_\_\_\_



Colour the child who



Colour the child who



Healthy food gives us energy to fight diseases.



Circle the foods that  
Cross out the foods that



# Eat a Rainbow!



chennette



pineapple



mango



guava



paw paw



pommecythere



passion fruit



West Indian  
Cherry

# Healthy Vs Unhealthy Meals



Roti



Burgers & Fries



Salad



Fried Chicken



Pizza

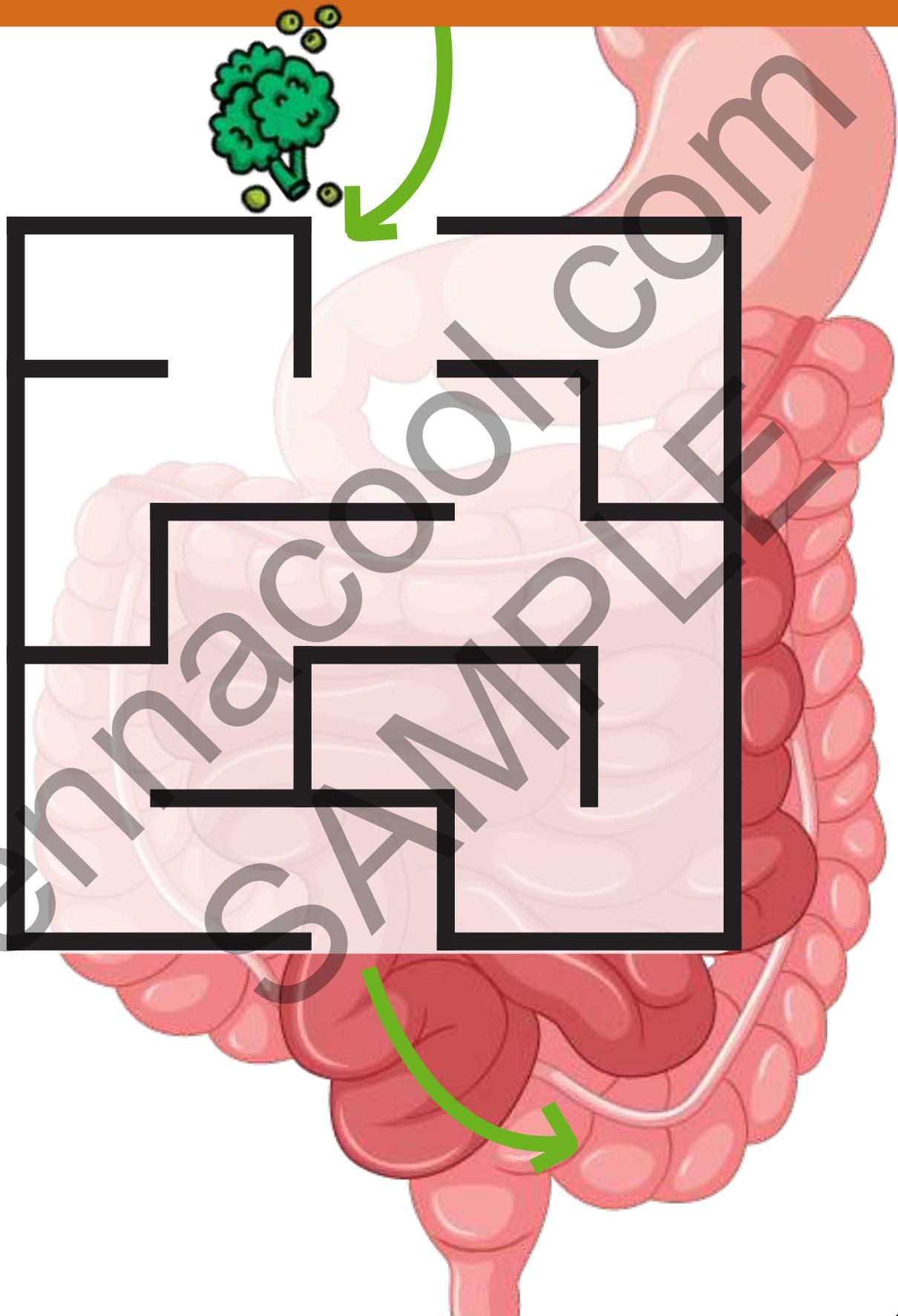


Pelau

Count the number of meals altogether.

There are \_\_\_\_\_ meals.

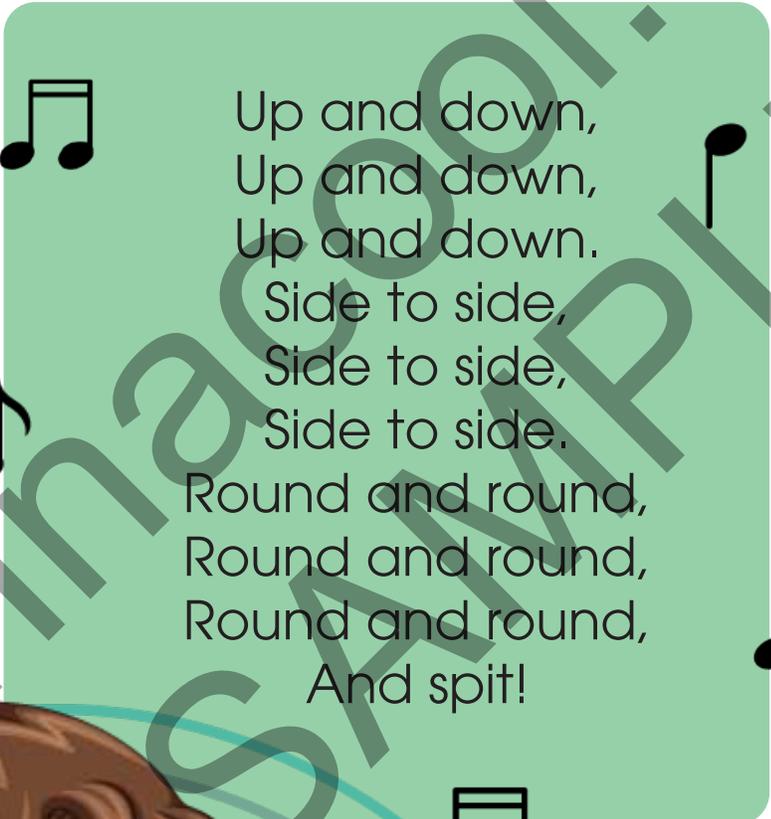
Help the broccoli find its way through the body.



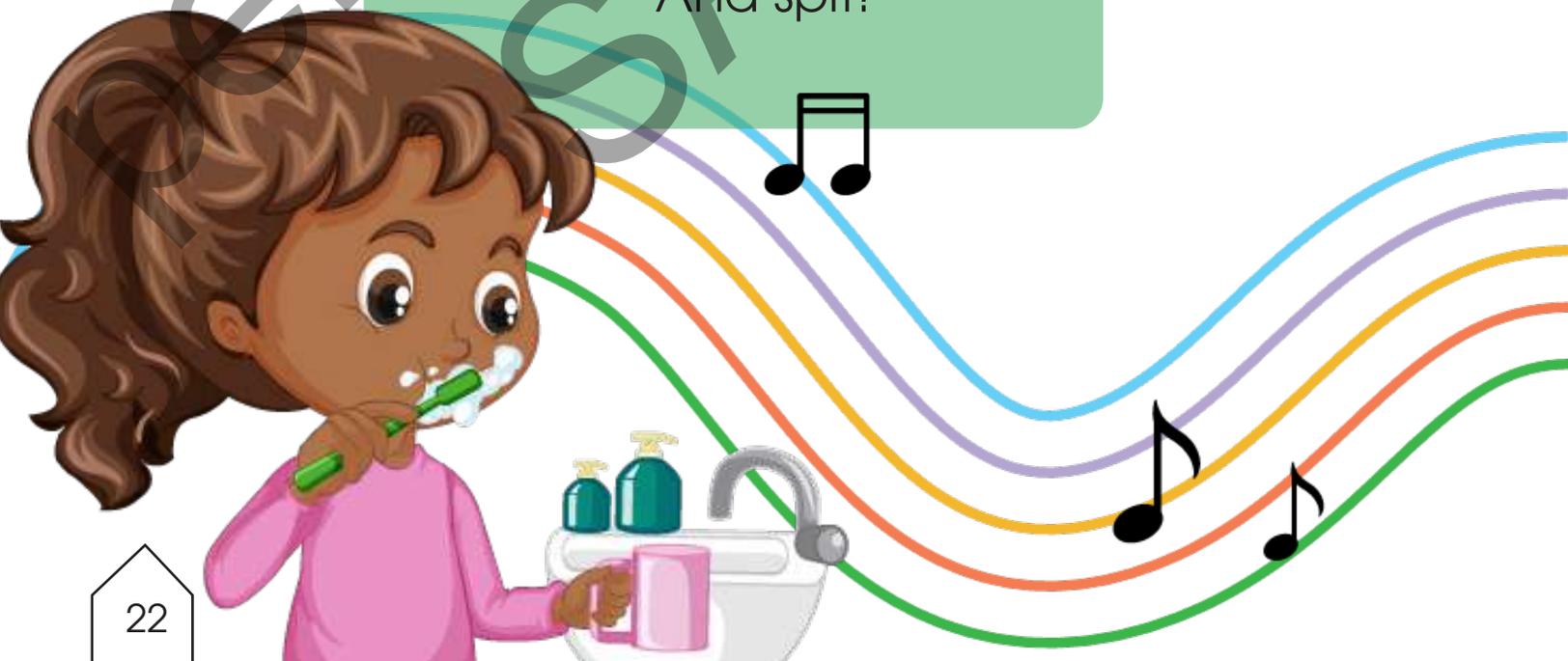
### 3. Personal Hygiene

Use your fingers and pretend to brush your teeth. Follow the directions in the jingle below.

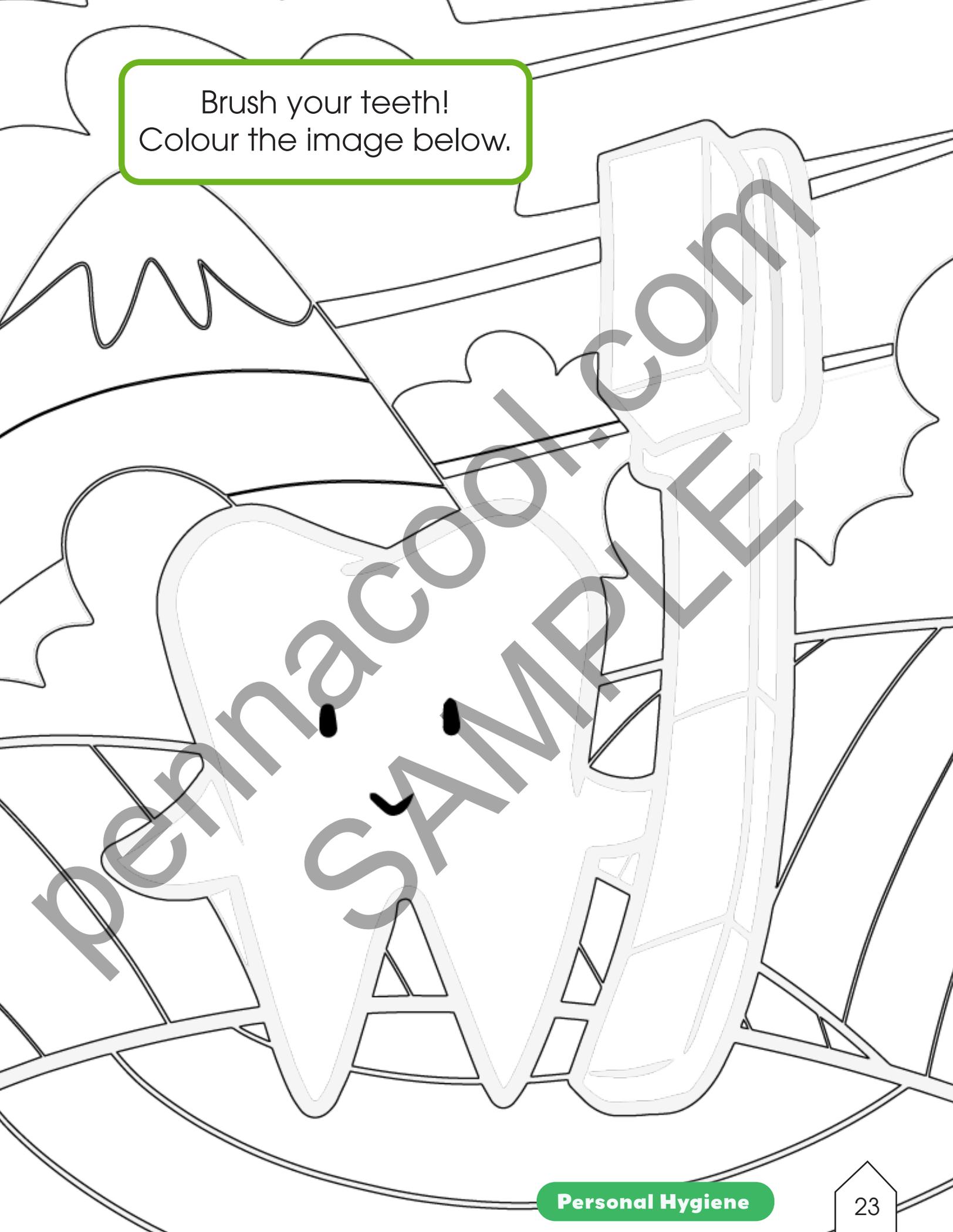
Remember to brush [REDACTED] of your teeth. Don't forget your tongue at the end.



Up and down,  
Up and down,  
Up and down.  
Side to side,  
Side to side,  
Side to side.  
Round and round,  
Round and round,  
Round and round,  
And spit!



Brush your teeth!  
Colour the image below.



What can you use to tidy your hair?

Circle only those items that you use.



Hair Brush



Hair Dryer



Hair Clippers



Paint Brush



Perfume



Lotion



Comb



Hair Oil



Hair-Tie



Toothbrush

How do you wash your hands? Put the pictures in order by writing 1, 2, and 3 under the pictures.



FUN FACT!



The bubbles made when we soap our hands is called "lather". Lather kills the germs.

Jason got dirty playing on the field. He is very muddy.                     ?

                     the correct picture.



It's time to get clean!  
Can you find all the words in the word search?

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

clean



shower

soap



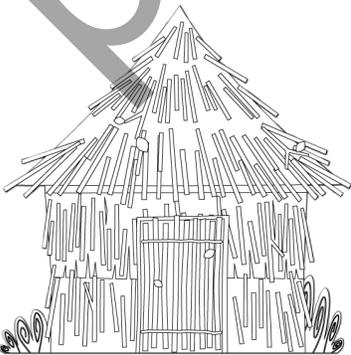
# 4. Everyday Structures and Simple Machines

## Functions of Everyday Structures

### The Three Little Pigs

Three little pigs came one day.  
This is what they had to say:  
“We would like some materials, please.  
To make our houses with ease.”  
The shopkeeper gave one straw, one sticks,  
And to the last, he gave some bricks.  
And off the piggies went to build  
Their houses high up on a hill.

Colour the **stick** house  the **straw** house  and the **brick** house



Straw



Stick



Brick

## Straw, Sticks, and Bricks

1. Which house is the strongest?

The \_\_\_\_\_ house is the



2. Which house is the \_\_\_\_\_



The \_\_\_\_\_ house is the



3. Which material would you build your house with?

I would build my house out of \_\_\_\_\_

\_\_\_\_\_.

Paint or draw a picture of your house here.



## Everyday Structures

All objects have a purpose. Circle the object that is best used for the given purpose.

1. Jane wants to  She can use:



a kettle



a chair

2. Aliyah wants a cup from the high shelf. To get the cup, she can use:



a bed



a step-ladder

3. Daddy wants to . He can use:



a watering can



a stapler

Some objects can be used for more than one purpose.

Jane needs to drink some water.

Circle ALL the items that she can use.



a cup



a bucket



a bowl



a spoon

The bird needs a nest.

Circle ALL the items the bird can use.



nest

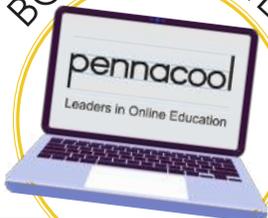


tree bark



fish bowl

BONUS CONTENT



[Pennacool.com](http://Pennacool.com)

→ Workbooks

→ Infants 1  
Science  
Workbook

→ Bonus  
Content

# Simple Machines

A simple machine makes work easier to do.

## 1. A Pulley

Pulleys make it easy to  up.

Circle the pulleys.



crane



cell phone



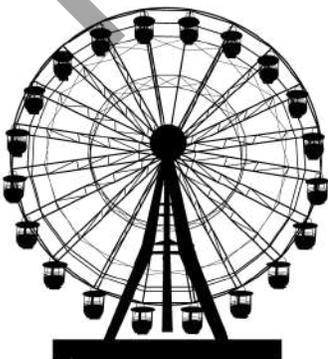
well

## 2. A Wheel and Axle

When a wheel spins on its axle, it makes things move easily.

the wheel and axle items that you have used already.

ferris wheel



bicycle



doorknob



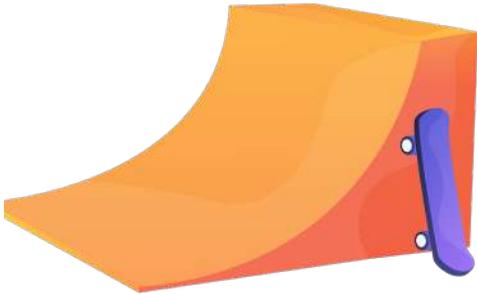
wheelchair

### 3. An Inclined Plane

An inclined plane is a sloped, flat surface. It has no moving parts.

Cross out the ones that you have not used before.

skateboard  
ramp



wheelchair  
ramp

slide



### 4. A Lever

A lever can be used to move or lift an object.

Mark an 'X' on the levers you have used before.

crowbar

scale



wheelbarrow



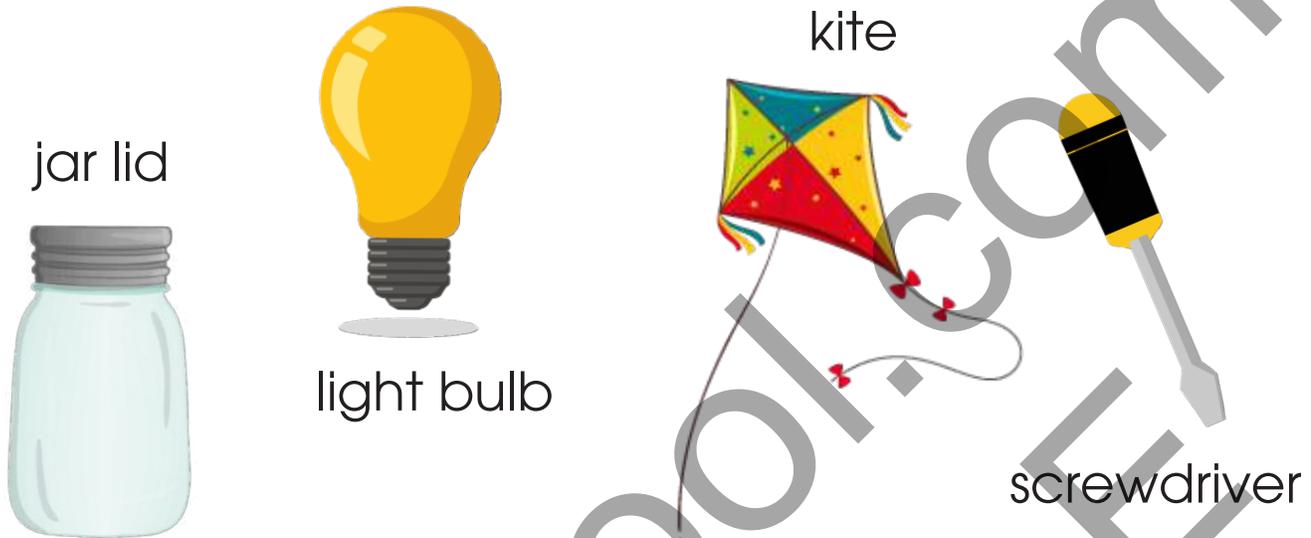
see-saw



## 6. A Screw

A screw is used to [REDACTED].

Circle the screws below.



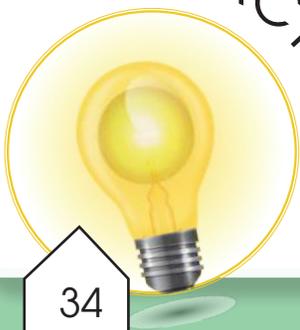
## 5. A Wedge

A wedge has a pointed end and a wide end, like a triangle. It is used to [REDACTED].

Colour only the wedges below.

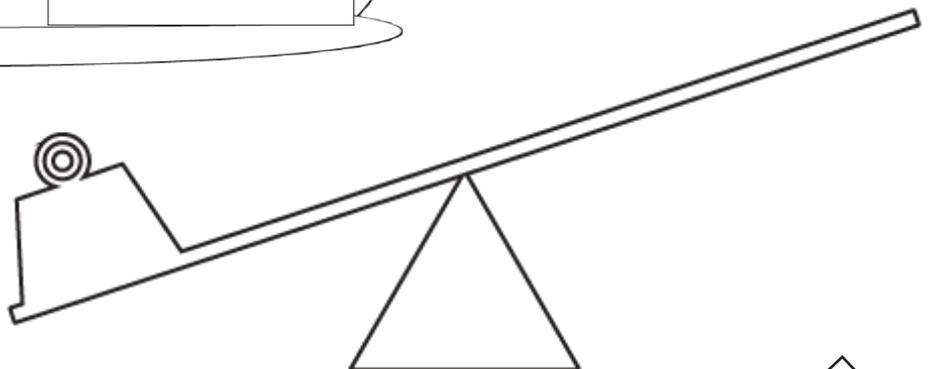
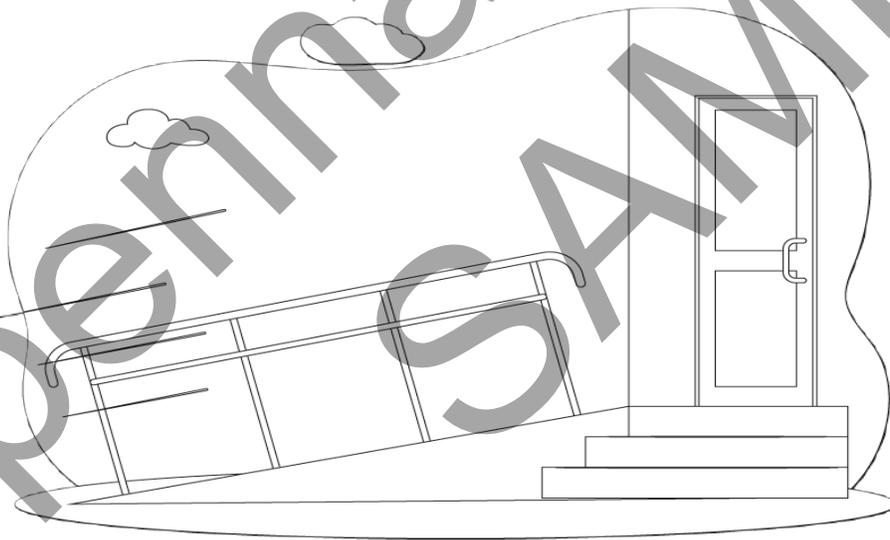
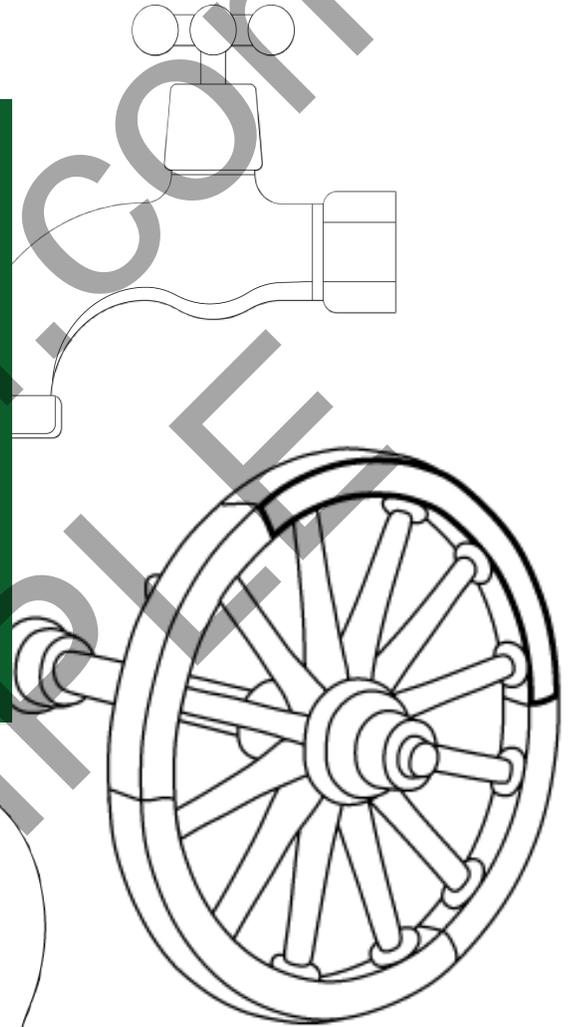


**FUN FACT!!**



A wedge is one of the oldest simple machines.

Colour the wheel and axle [ ] the ramp [ ]  
the lever [ ] the [ ] orange and the [ ]  
purple.



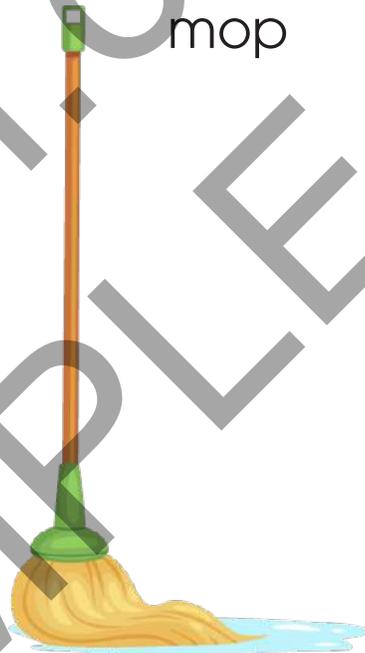
## Getting the Job Done Quickly

Some objects can make work easier or faster.

Circle the object that grandma should use



cleaning rag



mop

Which will take \_\_\_\_\_ to clean the floors?

The \_\_\_\_\_  
will take \_\_\_\_\_ to clean the  
floors.



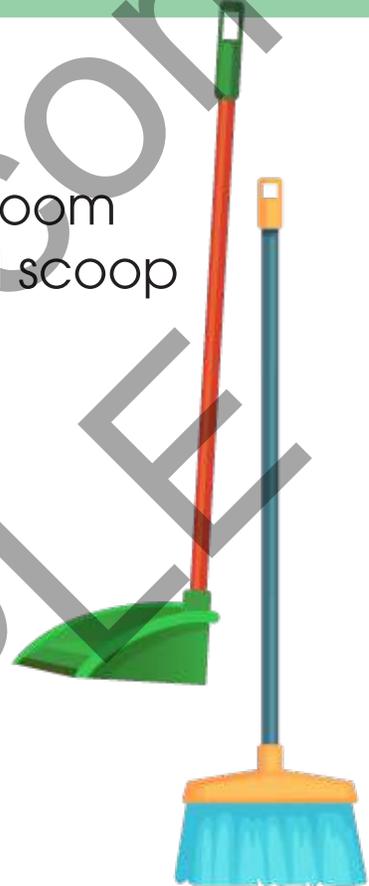


Grandpa is cleaning with Grandma.

Circle the object he should use to sweep the floors.

broom  
and scoop

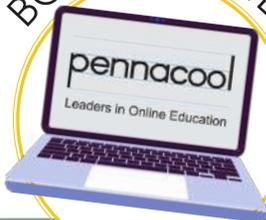
hand broom  
and dust pan



Which will take  to sweep the floors?

The \_\_\_\_\_ will  
take  to sweep the floors.

BONUS CONTENT



[Pennacool.com](http://Pennacool.com)

→ Workbooks

→ Infants 1  
Science  
Workbook

→ Bonus  
Content

# 5. Habitats

A habitat is [REDACTED]. All good habitats should offer **shelter, water, food** and **space**.



# Types of Habitats

Terrestrial habitats are on the

Aquatic habitats are in the

## Terrestrial Habitats

Terrestrial habitats are  They have trees for shelter, rivers for water, and a variety of fruits, animals, and plants for food.

Circle the photo that shows a  habitat.



FUN FACT!



Habitats are sometimes protected when an animal that lives in it is going extinct.

## Aquatic Habitats

Aquatic habitats are [redacted]. They have underwater plants and rocks for shelter, clean water for oxygen, and have a variety of aquatic plants and animals as food.

Circle the photo that shows a [redacted] habitat.



## Man-Made and Natural Habitats

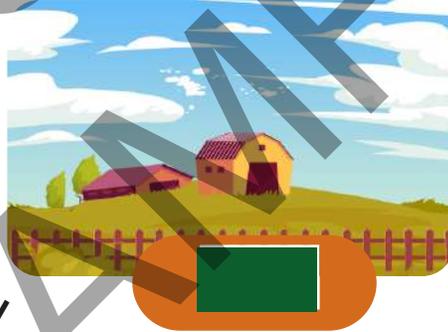
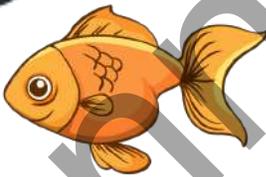
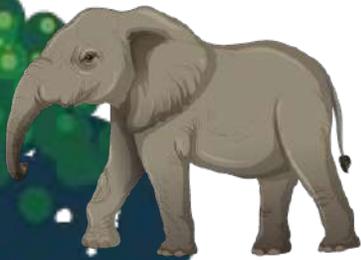
A habitat can be man-made or natural.

A few man-made habitats include:

- zoos
- [redacted]
- aquariums

# Man-Made Habitats

Sort the animals. Draw a line from the animal to the farm, zoo or aquarium.



Can you think of a ?  
Draw the habitat and an animal that lives in it.

This is a \_\_\_\_\_.  
(name of habitat)

An/a \_\_\_\_\_ lives here.  
(name of animal)

BONUS CONTENT



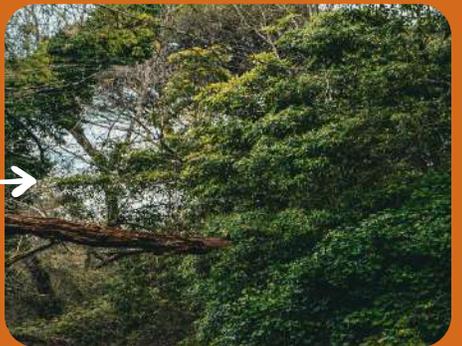
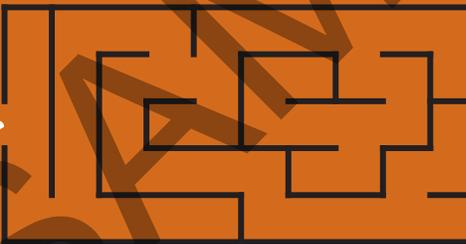
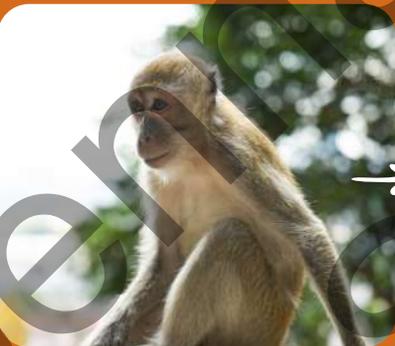
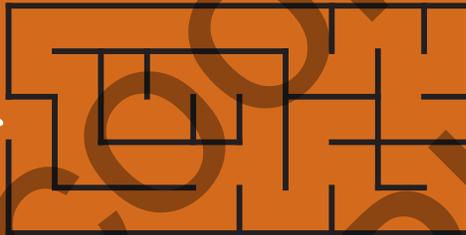
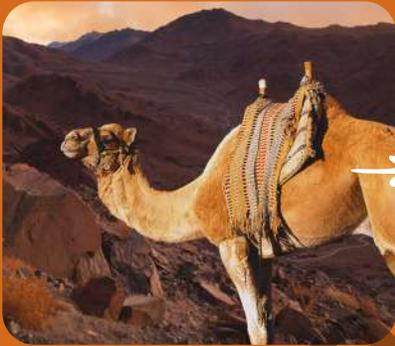
Pennacool.com → Workbooks → Infants 1 Science Workbook → Bonus Content

## Natural Habitats

Natural habitats include:

- forests
- deserts
- 

Help the animals find their way through the maze to their homes.





# Chapter Wrap-Up!

Colour the terrestrial and aquatic homes.



Trace the letters and read the words aloud.

Terrestrial Habitat  
Aquatic Habitat

### Which of These Do Not Belong?

Look at the squares. They are grouped into terrestrial and aquatic animals. However, in each square, one animal does not belong.



1.



agouti



2.



clown fish



angelfish



manatee



monkey

3.



dolphin



sea turtle

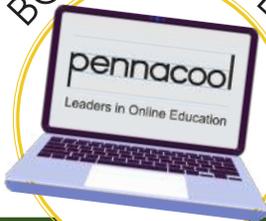


eel



dog

BONUS CONTENT



[Pennacool.com](http://Pennacool.com)

→ [Workbooks](#)

→ [Infants 1  
Science  
Workbook](#)

→ [Bonus  
Content](#)

# World Habitat Day

World Habitat Day is celebrated on [REDACTED] in October of every year.

It reminds us that we all have rights to adequate shelter.

“Trinidad and Tobago is my home.”



## 6. Types of Forces

When you **push** an object, you move it **away** from you.



push

When you **pull** an object, you bring it **towards** you.



pull

This is Joel and Elijah. They have a box.

Where should  stand to **push** the box?  
Circle the answer.

Behind the box

In front of the box

Circle   the box.



Where should Elijah stand to  the box?  
Circle the answer.

Behind the box

In front of the box

Circle Elijah  the box.



Look at the pictures below. Write **push** or **pull** next to each of them.



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



\_\_\_\_\_



Draw a line from the object to the energy it produces. Some objects can produce more than one type of energy.

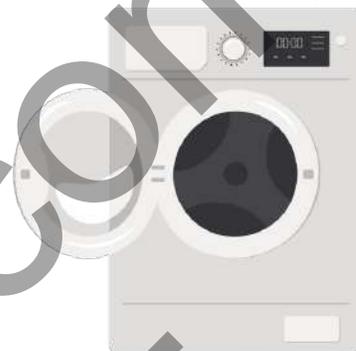
Radio



Light bulb



Dryer



Microwave



Alarm Clock



Stove

BONUS CONTENT



Pennacool.com → Workbooks →

Infants 1  
Science  
Workbook

→ Bonus  
Content

Sometimes an object can produce more than one type of energy. Put a **tick** (✓) under the forms of energy that each object produces.

|  |  |  |  |
|--|---|--|---|
| <br>Tablet          |   |  |   |
| <br>Fire           |   |  |   |
| <br>Hair<br>Dryer |   |  |   |

# Destroy the Energy Monster!

Energy is constantly being used by appliances and devices. The energy monster constantly needs energy to grow. It eats up energy and makes our light bills high.

Help lower the cost. Can you find all the places where energy is being wasted? Put an **X** on the spots.



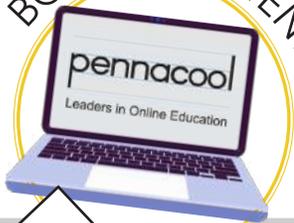
# 8. Reduce, Reuse, Recycle

## Trash Sort

Many of the things that we throw in the trash can be used again. The first thing we do is sort the trash. Draw a line from the trash to the correct bins provided.



BONUS CONTENT



Pennacool.com → Workbooks → Infants 1 Science Workbook → Bonus Content

## Craft Ideas

Here are some craft ideas you can make with your friends in class.

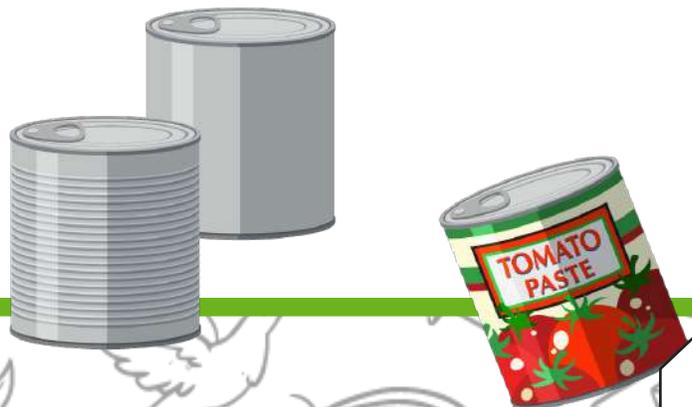
### Tin Can Containers

#### Materials

1. 
2. Paints and Brushes

#### Directions

1. Ask an adult to wash the can and put a couple of holes in the bottom.
2. Paint the can anyway that you like.
3. Add soil and a plant, or add your pencils.
4. Display your work.



## Paper Towel Roll Animals

### Materials

1. [REDACTED]
2. Paint
3. Markers.

### Directions

1. Paint the body
2. Use markers to add finishing details.



## Bottle Vase

### Materials

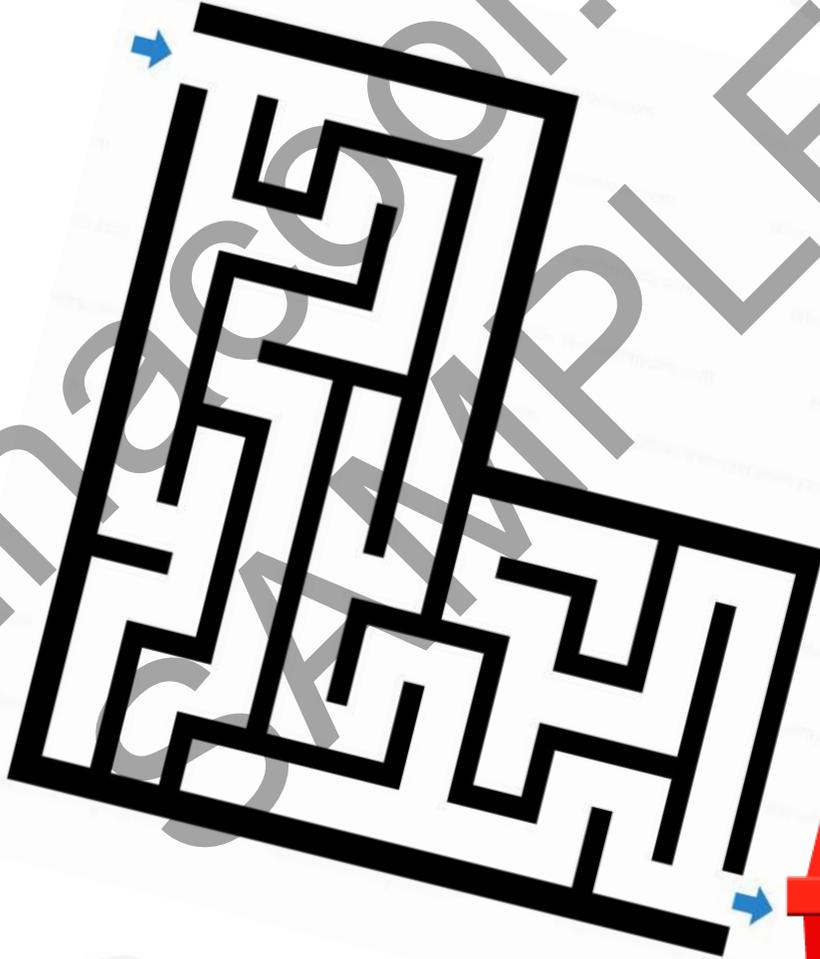
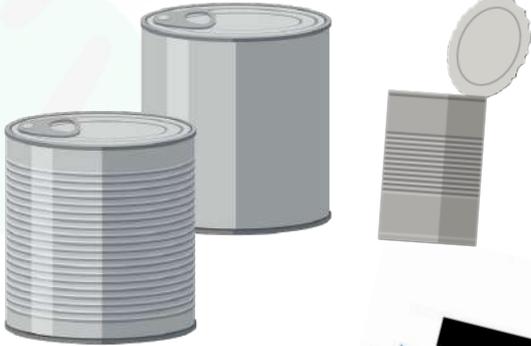
1. [REDACTED]

### Directions

1. Wash and remove labels.
2. [REDACTED].
3. Add flowers or leaves from the garden and display.



Guide the metal cans to the recycling bin.



# AGRICULTURAL SCIENCE



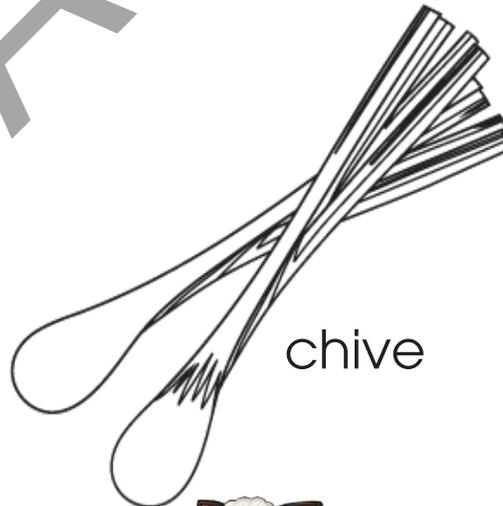
# 1. Agricultural Plants

Some foods we eat come from plants.  
Colour the following plants appropriately.

Local seasoning plants



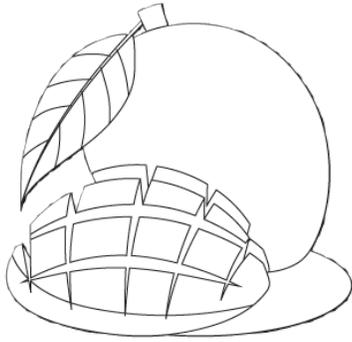
chadon-beni/culantro/  
bandanya



chive



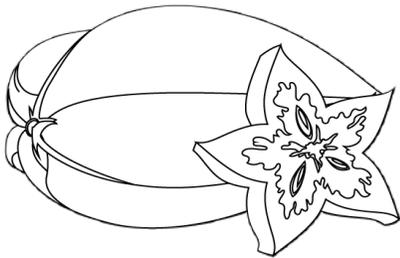
## Local fruit trees



mango



caimate



five-finger/star fruit/  
carambola

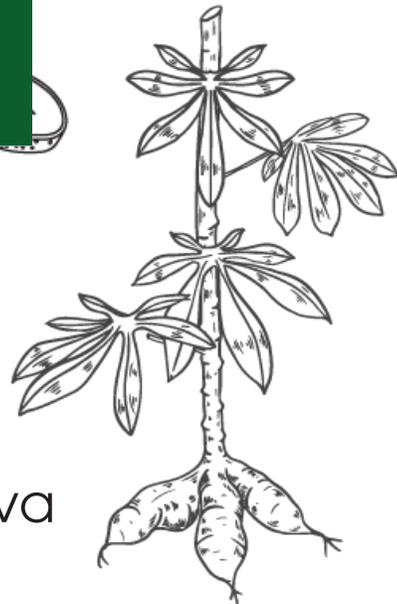


paw paw

## Local root crops



dasheen



cassava

Local leafy plants

lettuce



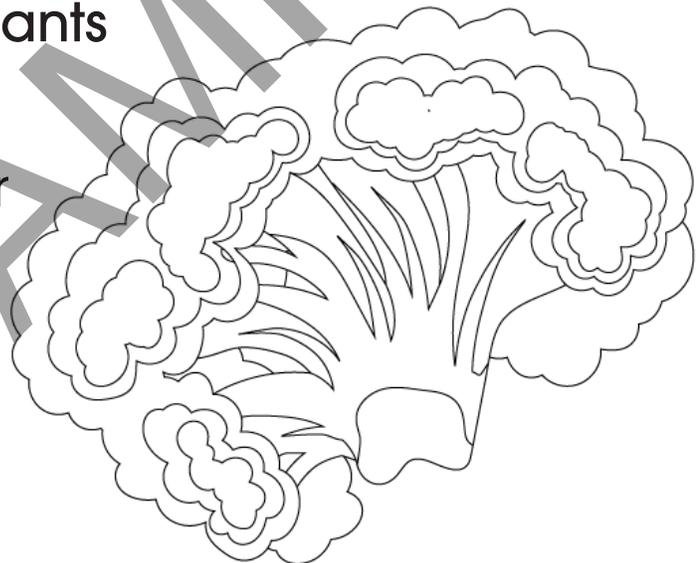
cabbage



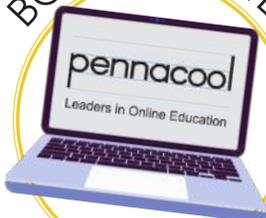
callaloo/  
dasheen leaf

Local flower plants

cauliflower



BONUS CONTENT



Pennacool.com → Workbooks →

Infants 1  
Science  
Workbook



Bonus  
Content

# Can We Eat It?

Circle the pictures of the plants that we eat as food.



rose plant



cactus



corn

Put an **X** on the pictures of the plants that  .

melongene/  
baigan



monstera  
plant



bodi



fern

## Plants are Important!



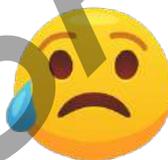
On planet Mars, there are no plants.

Gary is hungry. Can he make food without plants? \_\_\_\_\_  
(yes or no)

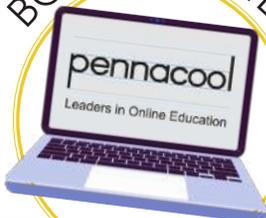
Plants make the oxygen that we breathe.  
Mars has no oxygen.

Can Gary take off his space suit? \_\_\_\_\_  
(yes or no)

If Gary has no food and no oxygen, how will he feel? Circle your answer.



BONUS CONTENT



Pennacool.com → Workbooks →

Infants 1  
Science  
Workbook

→ Bonus  
Content



With the help of your teacher, talk about what else we can use plants for.

I can use plants to \_\_\_\_\_



Penhacool.com  
SAMPLE

## 2. Agricultural Animals

Here is Farmer Chelsea. She lives on a farm.

Can you find  animals she may have on the  Circle them in



Snake



Cow



Ocelot



Chicken



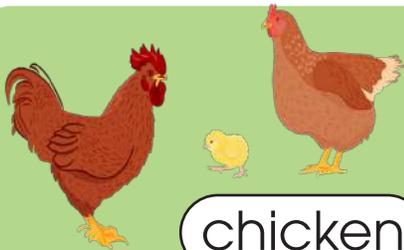
Pig



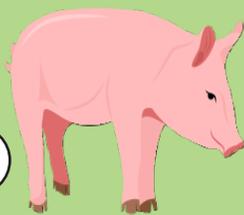
Monkey



Do you know what product these animals make?  
Draw a line to match the product to the animal it came from.



chicken



pig



sheep



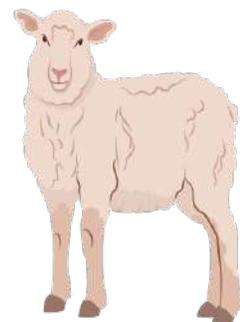
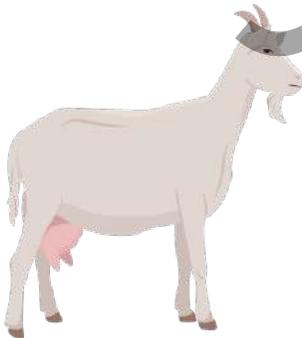
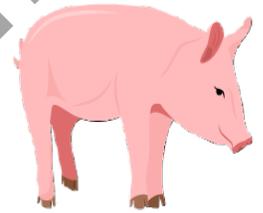
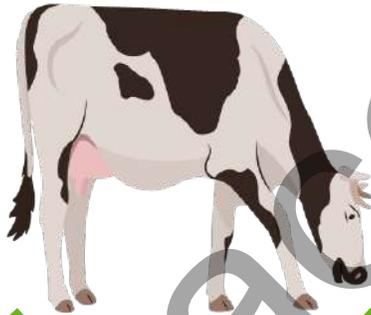
bees



COW

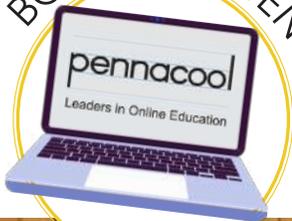


Farmer Chelsea's animals need to  
come into the barn. \_\_\_\_\_  
\_\_\_\_\_ in the barn for her.

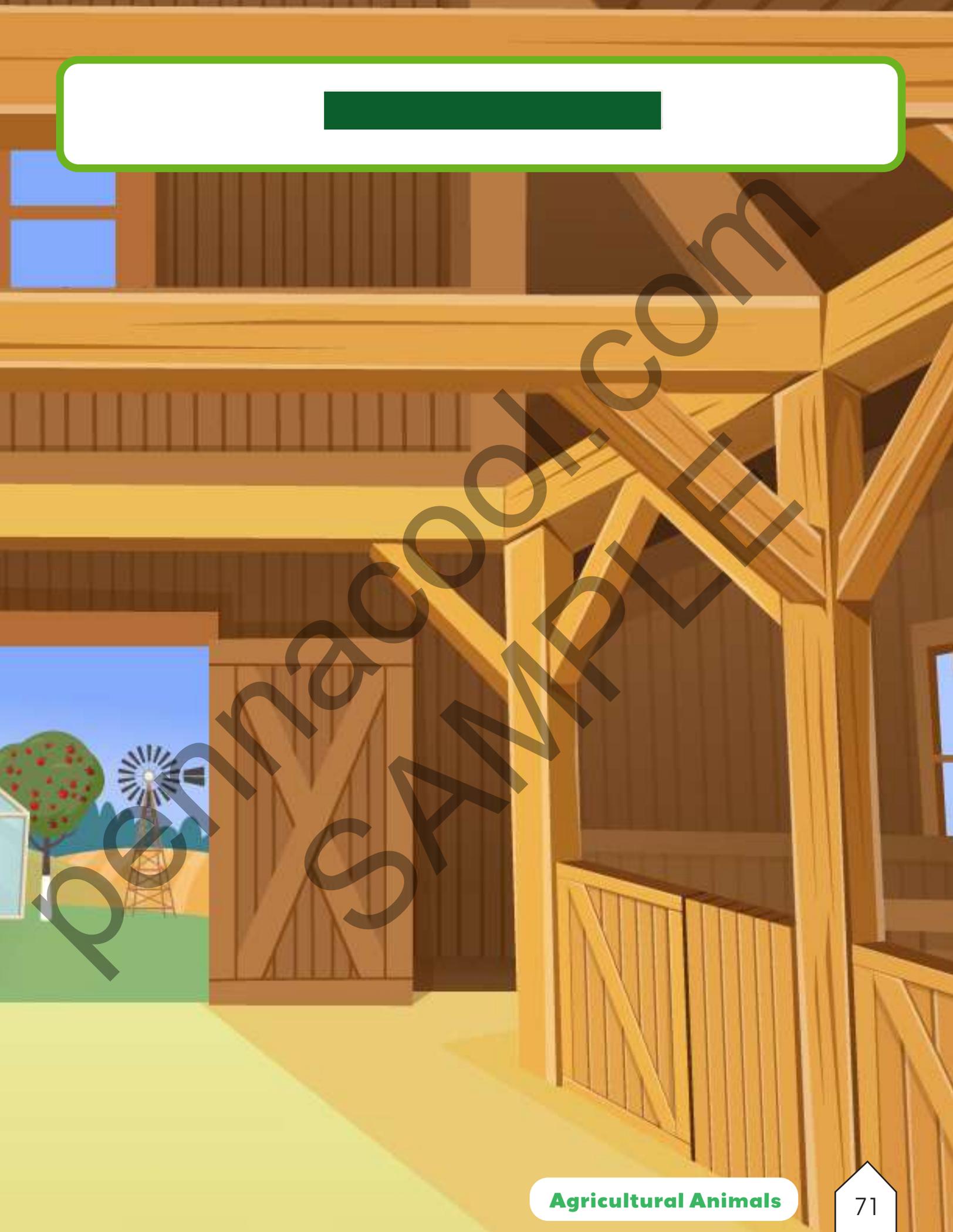




BONUS CONTENT



Pennacool.com → Workbooks → Infants 1 Science Workbook → Bonus Content



Is it important to rear animals on a farm?

\_\_\_\_\_

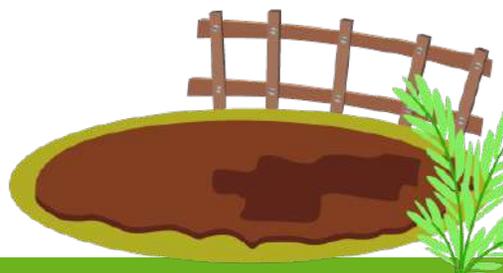
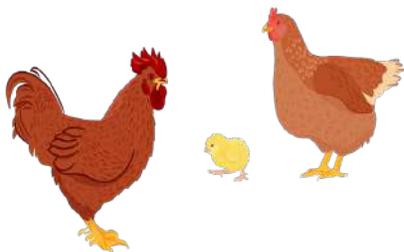
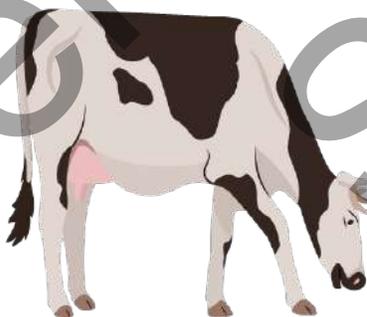
(Yes / No)

Have you ever visited an animal farm? What do you think it sounds like? Circle your answer.

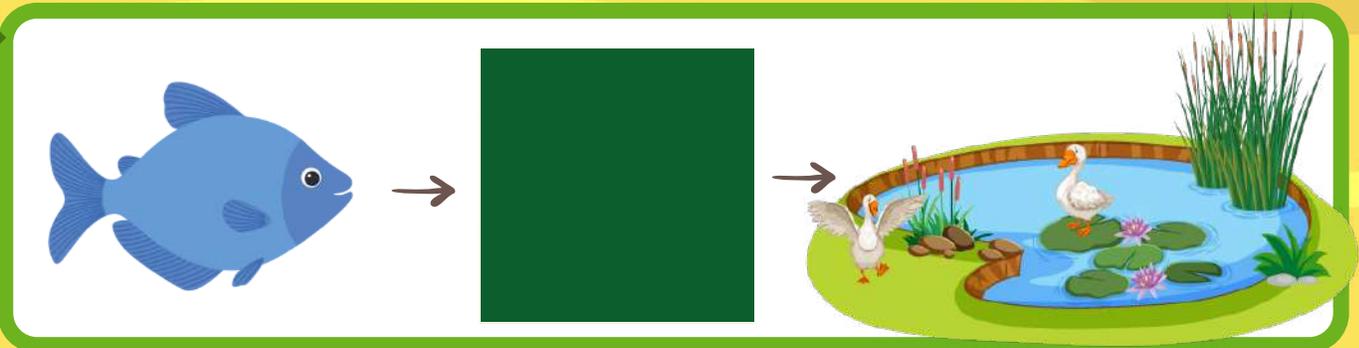
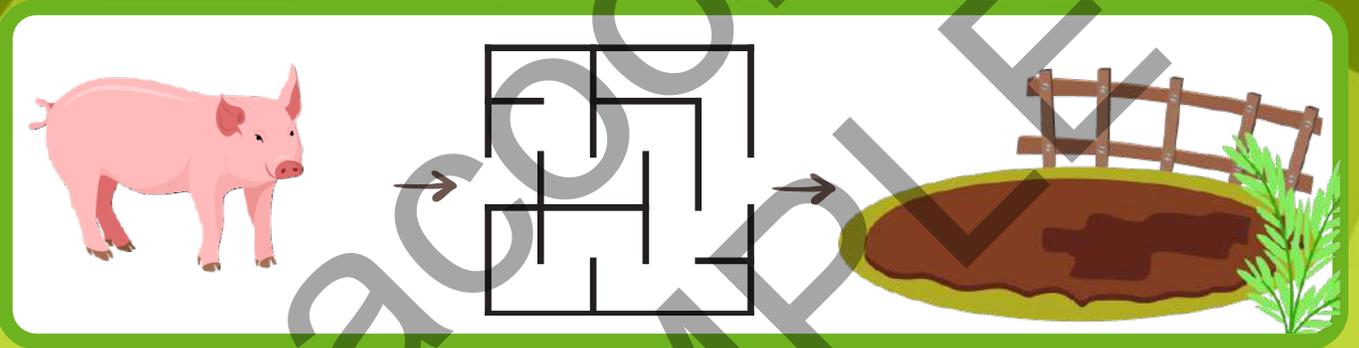
noisy / quiet

### Special Animal Homes

Some animals have special homes.



Can you help these animals go through the maze to find their way home?



## Your Favourite Animal

Let us pretend you are a farmer. Share with your classmates something about your two (2) favourite animals.

With the help of your parents, stick two of your favourite farm animals and prepare to share what makes them your favourite with your classmates.

FARM ANIMAL 1

FARM ANIMAL 2

Animal name

Animal name

FUN FACT!

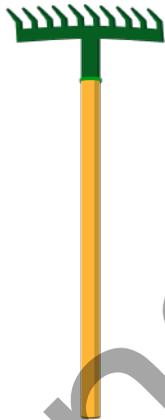


Raising animals on a farm is called "\_\_\_\_\_".



### 3. Agricultural Objects

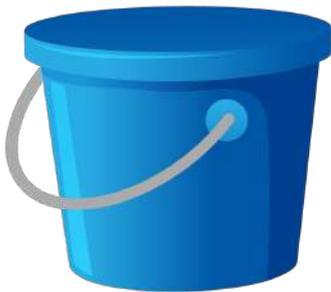
We use many tools on the farm.



rake



hoe



Put a  around the farm buildings. Put a  around the farm tools. Put a  around the farm equipment.

police station



storage shed



screwdriver



rake



tractor



cement mixer



watering can



farm house



plough



## Draw a Farm

Use your imagination and draw your own farm. Include your buildings, tools, and equipment.



## 4. The Food We Eat

Pat-a-cake,  
Pat-a-cake,  
Baker's man.  
Bake me a cake  
As fast as you can.  
Pat it and prick it  
And mark it with a 'B'  
And put it in the oven  
For baby and me!



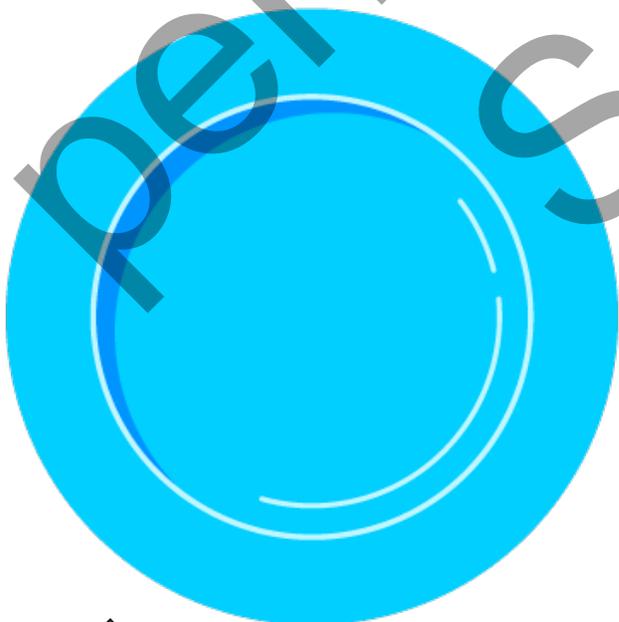
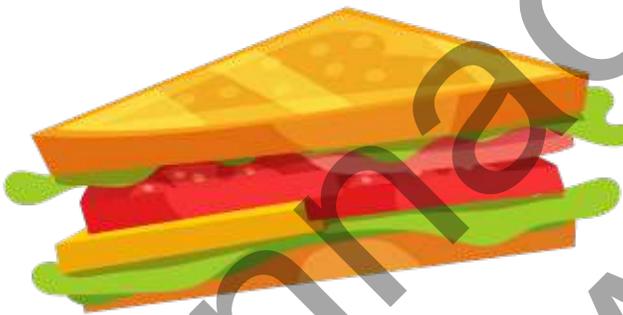
A healthy lunch can look like many things. Circle the one you like the best.



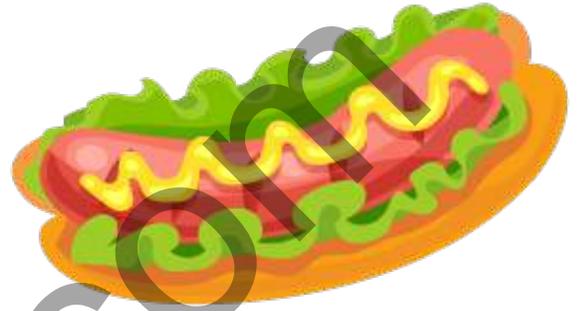
## It's Food Time!

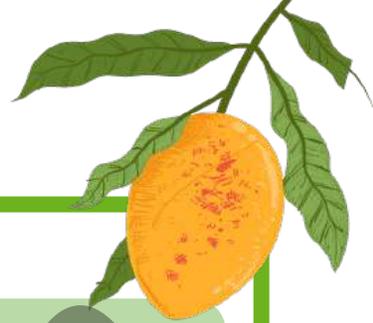
It's time for **breakfast**. Look at the pages and draw two of the items on the breakfast plate. The breakfast plate is 

It's time for **lunch**. Look at the pages and draw three of the items that are for lunch on the  plate.

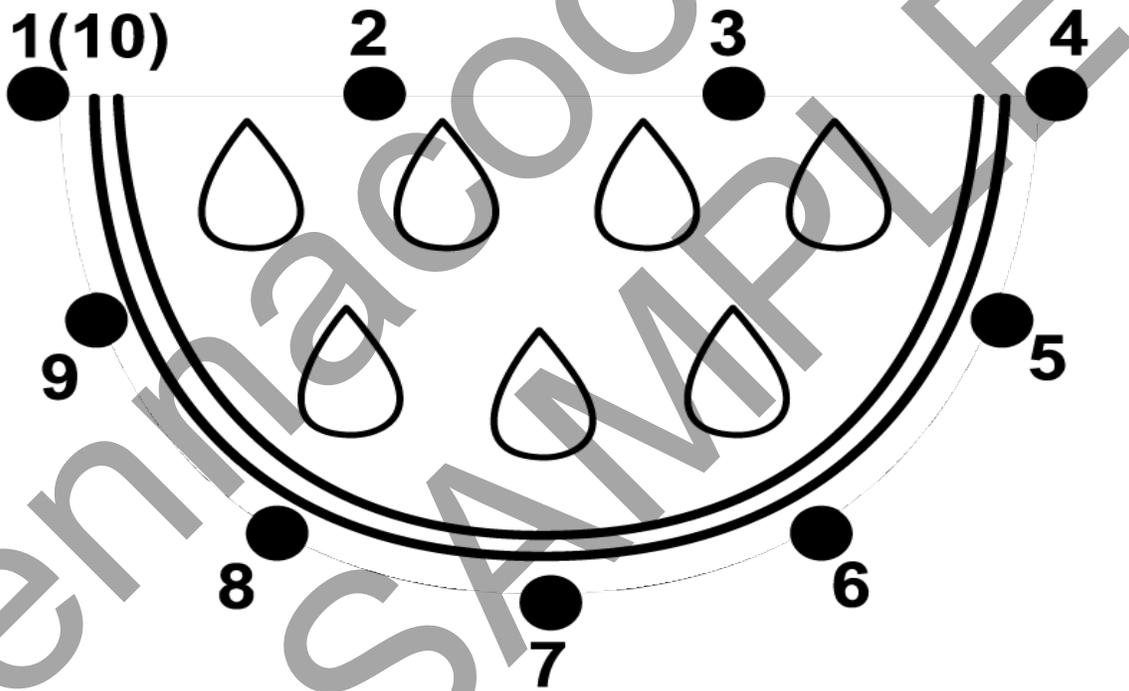


It's time for **dinner**. Look at the pages and draw two items for dinner on the  plate.





Healthy snacks are delicious and good for you.  
Can you join the dots to reveal the snack?  
Colour it when you are finished.



Can you guess what it is?

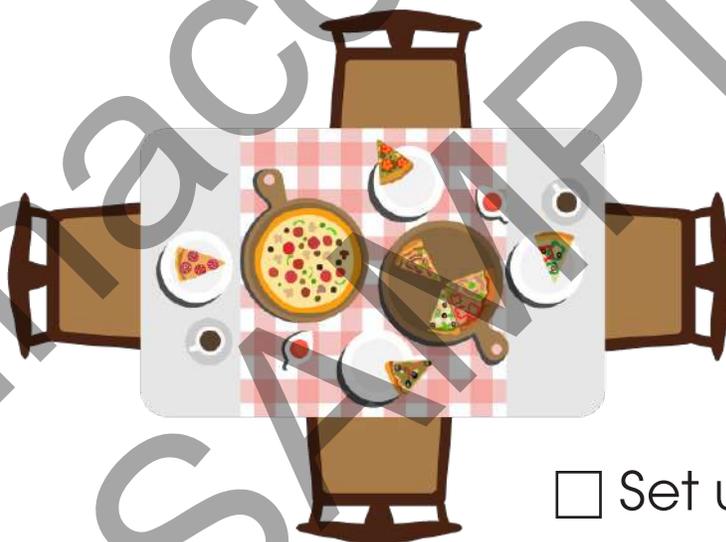
---

## What do you do before meal time?

Tick the activities you do before having a meal.



Wash your hands



Set up the table

Do you do anything else before having a meal?

Write it below.

---

# Let's sing!

With the help of your teacher,  
let's wash our hands using the song below.

This is the way we wash our hands,  
Wash our hands,  
Wash our hands,  
This is the way we wash our hands,  
Right before we eat.

This is the way we wash our fingers...

This is the way we wash our wrists...

## Foods Eaten on Special Occasions

"I love special occasions," said Mommy.

"I especially love the food," said Anna.

Draw a line to the times of year when you eat the following foods.



Cake



Roti



Pastelle



**Birthday**

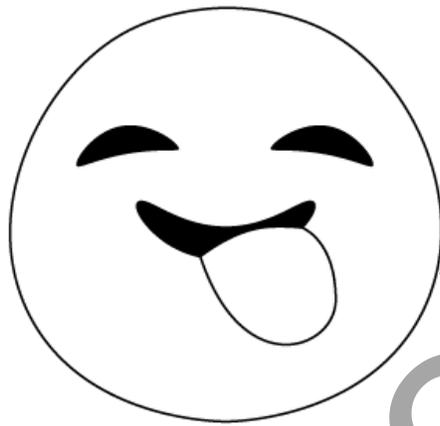


A special occasion deserves special food. Stick or draw pictures of foods you have eaten at any celebration you had with your family or friends.

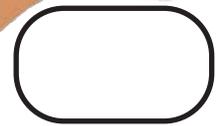
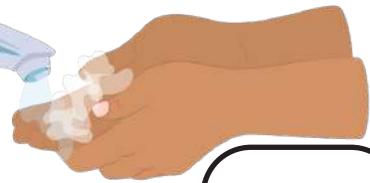


Celebration: \_\_\_\_\_  
\_\_\_\_\_

How does this food taste?  
Colour your answer below.



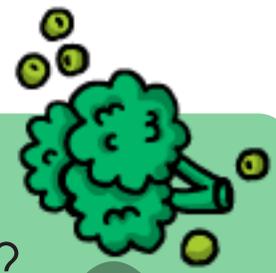
What should be done first?  
Order the pictures



Birthdays are special occasions!  
Colour and design your own birthday cake.



It's time to eat!  
Can you find the words below?



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

breakfast



dinner



peas



## **PARENT/GUARDIAN CORNER: PLEASE WORK WITH ME!**

I am a unique child; that's me.

I love the me I was created to be, the me that was named \_\_\_\_\_.

With two ears, a mouth, and a nose, the colour of my eyes are \_\_\_\_\_.

I love to \_\_\_\_\_ and  
\_\_\_\_\_ (HOBBIES)

I also have hair that is \_\_\_\_\_.

My religion is \_\_\_\_\_.

And Oh! I love the me I was created to be.

Share your page with classmates!