

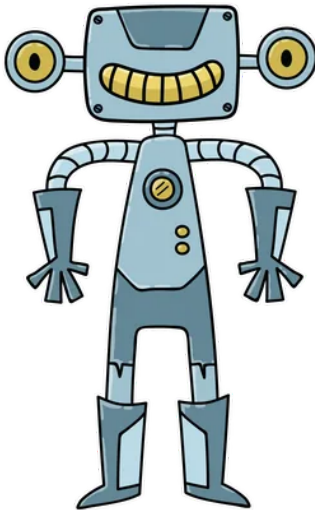
# Shape Detective

Find the shapes hiding in this robot. Then build your own character from shapes.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Find the shapes



## Tally them

Circles \_\_\_\_\_ = \_\_\_\_\_

Rectangles \_\_\_\_\_ = \_\_\_\_\_

Triangles \_\_\_\_\_ = \_\_\_\_\_

Other \_\_\_\_\_ = \_\_\_\_\_

## Build a new character from exactly 6 shapes

## My character is made of...

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# Home Sweet Habitat

Every animal needs a good home. Draw one and show what it needs to survive.



Name: \_\_\_\_\_ Date: \_\_\_\_\_

**My animal and its habitat:**

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**Draw the animal at home. Label food, water, shelter and space.**

A large, empty rectangular box with a rounded border, intended for a child to draw an animal in its habitat.

**I labeled**

☐ Food   ☐ Water   ☐ Shelter   ☐ Space

**What would happen if one of those were missing?**

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# Measure a Monster

Draw a monster on the grid. Then measure it in squares!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Draw your monster on the grid (use the lines!)



Squares tall:

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Squares wide:

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Squares it covers:

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My monster is taller / wider (circle one) because...

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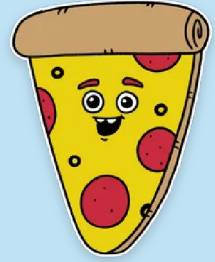
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# Class Survey Graph

What's the class favorite? Ask, count and graph it!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**My question (Which is your favorite...?):**

**Answers and tallies**

Answer 1 \_\_\_\_\_ = \_\_\_\_\_

Answer 2 \_\_\_\_\_ = \_\_\_\_\_

Answer 3 \_\_\_\_\_ = \_\_\_\_\_

Answer 4 \_\_\_\_\_ = \_\_\_\_\_

**Color one box for each vote**

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
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|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**The graph shows that...**

\_\_\_\_\_

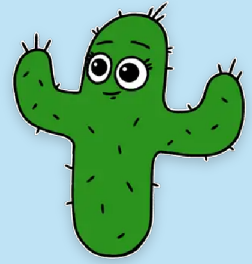
\_\_\_\_\_

\_\_\_\_\_

# Seed Diary

Plant a seed. Watch it closely and record how it grows.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**My seed:**

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**Planted on:**

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**Day 1**

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**Day 5**

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**Day 10**

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---

---

---

**Day 15**

---

---

---

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---

---

---

---

---

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**Height:**

---

---

**Height:**

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**Height:**

---

---

**Height:**

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**The biggest change I noticed:**

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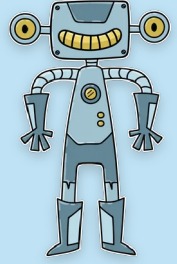
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# Mirror Robot

This robot lost half of itself! Draw the other side so it matches.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Finish the robot: make the right side match the left



Symmetrical things I can find in the room

- ☐ A door   ☐ A face   ☐ A chair   ☐ A window   ☐ A book

Symmetrical means...

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# Weather Watcher Week

Be a weather scientist. Look outside each day and record it.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Mon**

**Tue**

**Wed**

**Thu**

**Fri**

**Temp:**

**Temp:**

**Temp:**

**Temp:**

**Temp:**

**Warmest day:**

**Coolest day:**

**The weather I saw most this week was...**

# Pattern Parade

What comes next? Keep each pattern marching!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Make your own pattern parade (use faces, food or animals!)

My pattern rule is...

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# Float or Sink?

Guess first, then test. Will it float or sink?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Predict, then test

| Object | I think: float or sink? | It really... |
|--------|-------------------------|--------------|
|        |                         |              |
|        |                         |              |
|        |                         |              |
|        |                         |              |
|        |                         |              |
|        |                         |              |

## Draw the biggest surprise

## Things that float are often...

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# Ways to Make Ten

Ten bees are buzzing around. How many ways can you split them up?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



\_\_\_ + \_\_\_ = 10

\_\_\_ + \_\_\_ = 10

\_\_\_ + \_\_\_ = 10

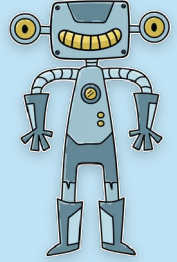
\_\_\_ + \_\_\_ = 10

**Challenge: make 10 with three groups**

# Paper Bridge Challenge

One sheet of paper, two books, a gap. How strong can your bridge be?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Plan: draw my bridge design**

**Version 2: my improved design**

## Test results

| Version | I predict it holds | It really held |
|---------|--------------------|----------------|
| 1       |                    |                |
| 2       |                    |                |

**What made it stronger?**

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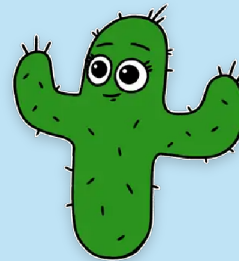


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# Shadow Tracker

Your shadow moves all day long. Catch it three times!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



My object (stand it in the same spot each time):  
\_\_\_\_\_  
\_\_\_\_\_

Morning · time: \_\_\_\_

Midday · time: \_\_\_\_

Afternoon · time: \_\_\_\_

Length: \_\_\_\_\_  
\_\_\_\_\_

Length: \_\_\_\_\_  
\_\_\_\_\_

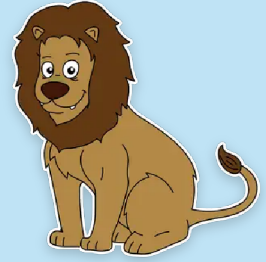
Length: \_\_\_\_\_  
\_\_\_\_\_

What happened to the shadow? Why?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

# Sort the Animals

Fur, feathers or scales? Sort these animals like a scientist.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## My animals

| Animal | Legs | Covering | Home |
|--------|------|----------|------|
|        |      |          |      |
|        |      |          |      |
|        |      |          |      |
|        |      |          |      |
|        |      |          |      |
|        |      |          |      |

## I found

☐ Mammals
 ☐ Birds
 ☐ Fish
 ☐ Reptiles
 ☐ Amphibians
 ☐ Insects

## Draw the animal that was hardest to sort

## Why was it tricky?

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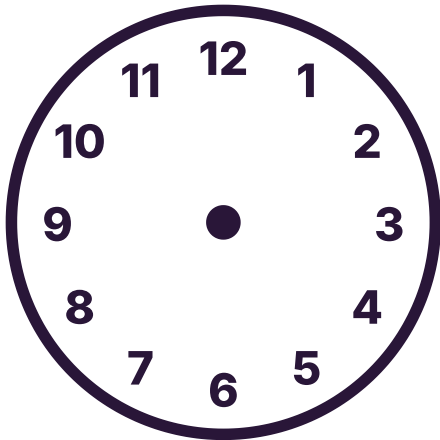
# My Day in Clocks

The rooster wakes up early. What time do YOU do things?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

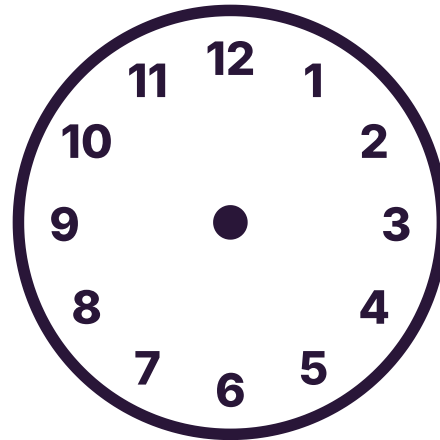


I wake up



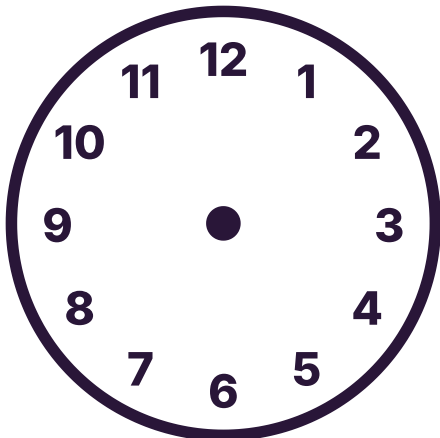
Time: \_\_\_\_\_

I eat lunch



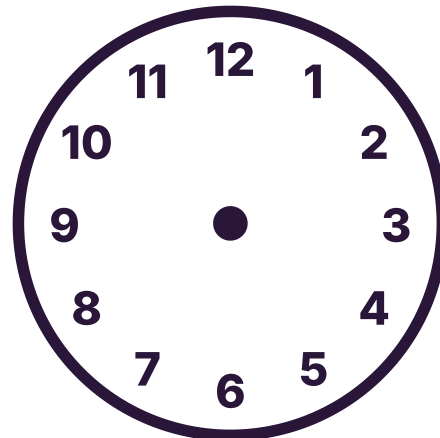
Time: \_\_\_\_\_

I go home



Time: \_\_\_\_\_

I go to bed



Time: \_\_\_\_\_

How many hours am I at school?

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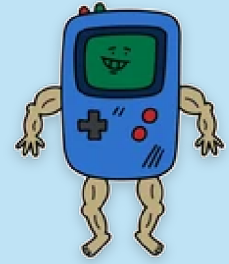


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# Art Supply Shop

You have \$10. What will you buy for your next masterpiece?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Price list

- ☐ Pencil \$1   ☐ Eraser \$1   ☐ Sketchbook \$4   ☐ Crayons \$3   ☐ Markers \$5  
☐ Paint \$6   ☐ Stickers \$2   ☐ Glitter \$2

## What I'm buying

Item: \_\_\_\_\_

Item: \_\_\_\_\_

Item: \_\_\_\_\_

Total: \_\_\_\_\_

## Change from \$10:

\_\_\_\_\_  
\_\_\_\_\_

## Draw what you'll make with your supplies

# Life Cycle Circle

Life goes around in a circle. Draw each stage!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



The life cycle of a:

\_\_\_\_\_

\_\_\_\_\_

Draw the four stages in order, going around

1.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Life cycle

4.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

The most surprising stage is... because...

\_\_\_\_\_

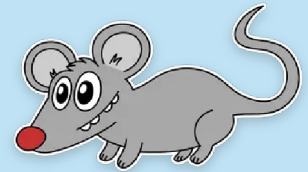
\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# Fingerprint Detective

Rub a pencil on scrap paper, press your finger in it, then press it in the box!



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## My fingerprints

|             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|
|             |             |             |             |             |
| Type: _____ | Type: _____ | Type: _____ | Type: _____ | Type: _____ |

## The three types (draw what yours look like next to each)

|  |  |  |
|--|--|--|
|  |  |  |
|--|--|--|

## My most common type was... My partner's was...

|       |       |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

# Paper Airplane Test

Fold, fly, measure. Which design flies farthest?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Plane A design**

**Plane B design**

## Flight results

| Plane | Flight 1 | Flight 2 | Flight 3 | Best |
|-------|----------|----------|----------|------|
| A     |          |          |          |      |
| B     |          |          |          |      |

**The winner flew farther because...**

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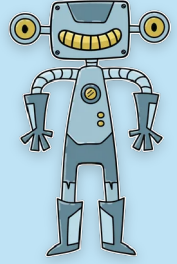


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# Magnet Hunt

Guess first, then test! What sticks to a magnet?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Predict and test

| Object      | I predict | It stuck? |
|-------------|-----------|-----------|
| Paper clip  |           |           |
| Coin        |           |           |
| Crayon      |           |           |
| Spoon       |           |           |
| Key         |           |           |
| Your choice |           |           |

## Things that stuck were all made of...

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# Ice Melt Race

Ready, set, melt! Where will ice melt fastest?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## My three spots

Spot A: \_\_\_\_\_

Spot B: \_\_\_\_\_

Spot C: \_\_\_\_\_

## Check every 10 minutes (draw the cube)

| Spot | 10 min | 20 min | 30 min |
|------|--------|--------|--------|
| A    |        |        |        |
| B    |        |        |        |
| C    |        |        |        |

## I predicted... The winner was... because...

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# Moon Diary

Look at the moon each night and draw what you see!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Eight nights

1

Date: \_\_\_\_\_

2

Date: \_\_\_\_\_

3

Date: \_\_\_\_\_

4

Date: \_\_\_\_\_

5

Date: \_\_\_\_\_

6

Date: \_\_\_\_\_

7

Date: \_\_\_\_\_

8

Date: \_\_\_\_\_

The moon is getting bigger / smaller. I think next it will...

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# Measure with Hands and Feet

Measure with your own body! Hands, feet and steps.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## My measurements

| Thing     | Hands | Feet | Partner |
|-----------|-------|------|---------|
| My desk   |       |      |         |
| The door  |       |      |         |
| The rug   |       |      |         |
| My choice |       |      |         |

## Me measuring

## Why our answers were different:

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# Foil Boat Challenge

Build a foil boat. How many pennies can it carry?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## Boat 1 design

## Boat 2 (improved)

## Pennies held

| Boat | Pennies before sinking |
|------|------------------------|
| 1    |                        |
| 2    |                        |

## What I changed and why it helped:

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# Bug Parts Lab

Insects have three body parts and six legs. Draw and label a real one, then invent a bug!

Name: \_\_\_\_\_ Date: \_\_\_\_\_

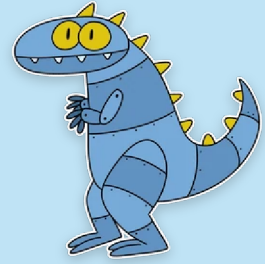


**A real insect from a photo. Label: head, thorax, abdomen, legs, wings, antennae**

**Every insect has...**

- |                                       |                                         |
|---------------------------------------|-----------------------------------------|
| <input type="checkbox"/> 3 body parts | <input type="checkbox"/> 6 legs         |
| <input type="checkbox"/> 2 antennae   | <input type="checkbox"/> an exoskeleton |

**My invented insect (with all the parts!)**



# Simple Machines Hunt

Simple machines are everywhere! How many can you find?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Draw one you found for each

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

Machine: \_\_\_\_\_

Where I found it: \_\_\_\_\_

The machine I use most every day:

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# Odd and Even Monsters

Even numbers make pairs. Odd numbers have one left over! Draw your monsters.



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Even monster (even number of eyes)

## Odd monster (odd number of legs)

## Count them

| Monster | Eyes | Legs | Odd or even? |
|---------|------|------|--------------|
| Even    |      |      |              |
| Odd     |      |      |              |

## How I know a number is even:

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# Estimation Jar

How many are in the jar? Make a smart guess!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Draw what's in the jar



My thinking

Too low: \_\_\_\_\_

Too high: \_\_\_\_\_

My guess: \_\_\_\_\_

Real count: \_\_\_\_\_

How I made my guess:

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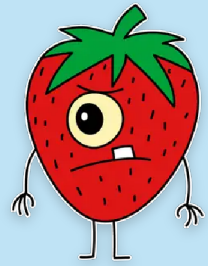
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# Symmetry Hunt

Find things that match on both sides! Draw the mirror line.

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Draw each thing and its mirror line

It is:

It is:

It is:

It is:

It is:

It is:

Finish the other half



Something that is NOT symmetrical:

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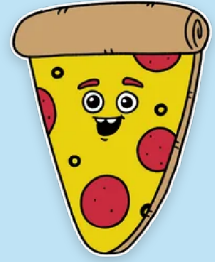
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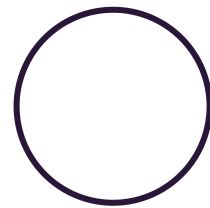
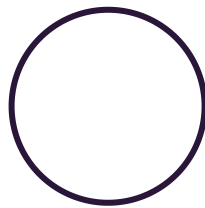
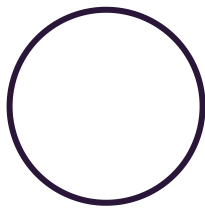
# Fraction Pizza Party

Slice the pizzas and share them fairly!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Cut the first in halves, the second in quarters and the third in eighths



## Toppings

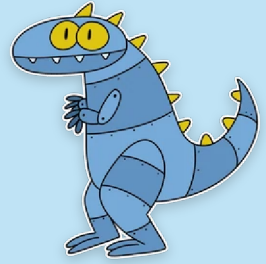
| Pizza    | Slices with cheese only | Fraction |
|----------|-------------------------|----------|
| Halves   |                         |          |
| Quarters |                         |          |
| Eighths  |                         |          |

Would you rather have  $\frac{1}{2}$  or  $\frac{3}{8}$ ? Why?

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# Tower Challenge

How tall can you build with just paper and tape?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

**Plan**

**What I built**

## Test results

| Try | Height | What I changed |
|-----|--------|----------------|
| 1   |        |                |
| 2   |        |                |
| 3   |        |                |

**The secret to a tall tower:**

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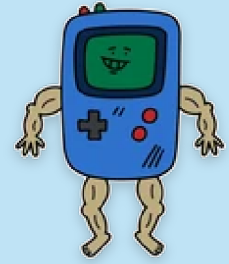


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# Ramp Race

Does a steeper ramp make a car go farther? Test it!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



I predict...

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My results

| Ramp height | Distance 1 | Distance 2 | Distance 3 |
|-------------|------------|------------|------------|
| 1 book      |            |            |            |
| 2 books     |            |            |            |
| 3 books     |            |            |            |

My ramp setup

What I found out:

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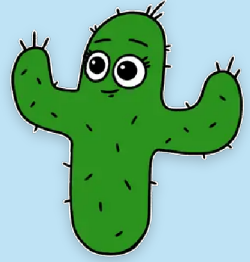


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# Plant Parts Lab

Every plant has parts with jobs. Find them on a real plant!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**My plant, from roots to top**

**Each part's job**

**Roots:** \_\_\_\_\_

**Stem:** \_\_\_\_\_

**Leaves:** \_\_\_\_\_

**Flower:** \_\_\_\_\_

**A surprise I noticed:**

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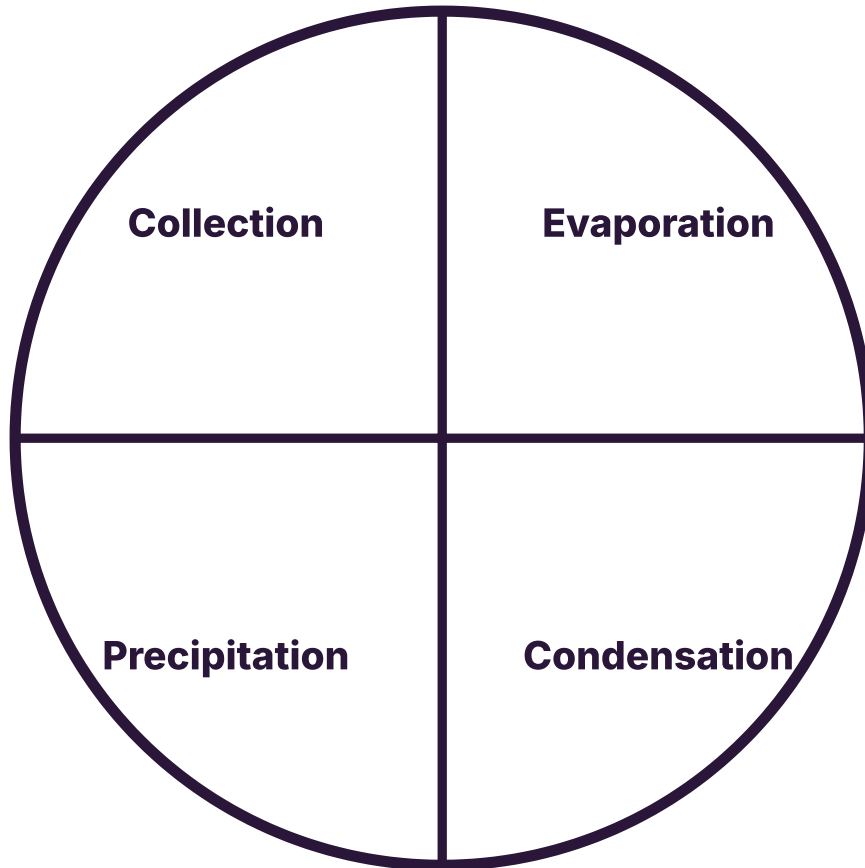
# Water Cycle Wheel

Water goes round and round. Draw its journey!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Draw each stage in its slice



A raindrop's story in my own words:

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# Skip-Count Caterpillar

Help the caterpillars grow by skip counting!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Count by 2s

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

Count by 5s

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

Count by 10s

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

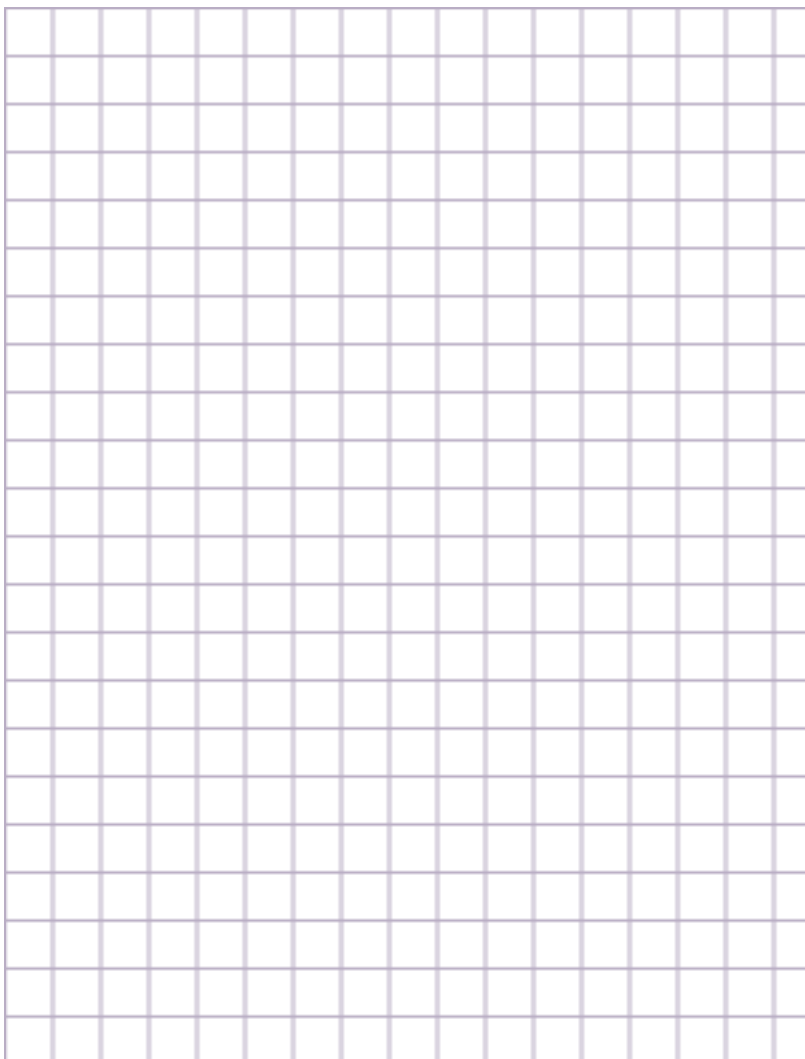
# Area Monsters

Build a monster from squares. How big is it?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Color whole squares to make a monster



Squares for each part

Head: \_\_\_\_\_

Body: \_\_\_\_\_

Arms: \_\_\_\_\_

Legs: \_\_\_\_\_

Total area: \_\_\_\_\_

Can you make a monster with the same area but a new shape?

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# Make a Rainbow

Catch a rainbow with a glass of water and some sun!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## My setup

## The rainbow I made

## The colors, in order

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

## And the rest

5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_

## I think rainbows happen because...

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# Glitter Germ Test

Germes are too small to see, so let's pretend with glitter!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Where the glitter germs spread (draw them!)**

## Washing test

| How I washed    | Glitter left |
|-----------------|--------------|
| Water only      |              |
| Wipe on a towel |              |
| Soap and water  |              |

**Why we wash with soap:**

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# Cup Phone Test

Make a phone from cups and string! Can you hear me now?

Name: \_\_\_\_\_ Date: \_\_\_\_\_



## My cup phone

## I used...

- ☐ 2 cups    ☐ string  
☐ a pencil to poke holes    ☐ tape

## What I tested

| Test         | Could I hear? |
|--------------|---------------|
| String tight |               |
| String loose |               |
| Short string |               |
| Long string  |               |

## Sound travels through the string because...

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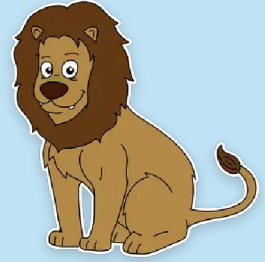


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# Food Chain Builder

Who eats whom? Build a food chain from the sun up!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



My food chain (arrows mean "gives energy to")

Sun

Plant

Plant eater

Meat eater

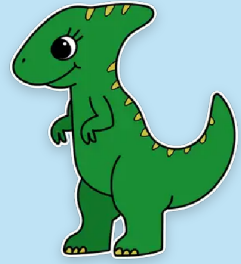
If the plants disappeared...

Where I fit in a food chain:

# Frog Hop Number Line

Hop along the number line to solve each problem!

Name: \_\_\_\_\_ Date: \_\_\_\_\_



**3 + 4 = ? Start at 3 and hop 4.**



**9 - 5 = ? Start at 9 and hop back 5.**



**Make up your own: \_\_\_\_ + \_\_\_\_ = \_\_\_\_**



**Hopping helps me because...**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_