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Measurement - Year 2

Table of Contents	
Presentation: Measurement	
Classroom Display: Marvellous Measurement	
Activity: Equal Unit Length Strips	
Game: Capacity Cup Challenge	
Worksheet: Length Line-Up	
Worksheet: Cover the Area	
Worksheet: Capacity Comparisons	
Worksheet: Balance Scale Mass	
Worksheet: Measurement Mix-Up	
Worksheet: Measurement Lab	
Quiz: Measurement	
Assessment: Measurement Check-In	
Rubric: Measurement	



Marvellous Measurement

We compare and order objects using equal informal units.

1 LENGTH

How long?
Line up equal units with no gaps.



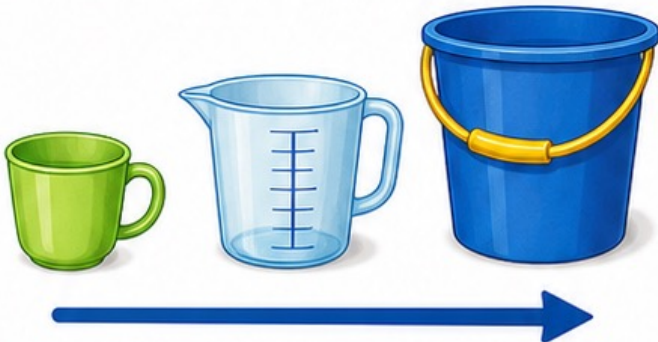
2 AREA

How much flat space?
Cover the surface with equal units.



3 CAPACITY

How much can it hold?
Compare containers from least to most.



4 MASS

How heavy?
Use a balance scale to compare.



Same units. • Careful measuring. • Clear explaining.

Equal Unit Length Strips

Measure length with equal informal units.



Cut out a strip. Line up the units with no gaps or overlaps.
Estimate first, then measure.



paperclip
units



cube
units



counter
units



craft stick
units



button
units



Choose two classroom objects.

Which is longer?

How do you know?



Capacity Cup Challenge

You need:

counter, dice, cup cards

How to play:

1. Roll and move.
2. Read the space.
3. Say which container has the greater capacity.
4. If you explain clearly, stay on the space.

Cup Cards

1 cup



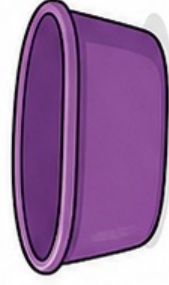
2 cups



3 cups



4 cups



Name: _____

Date: _____

Length Line-Up

Count the paperclips. Write the length. Then compare.

Part 1: Measure with paperclips

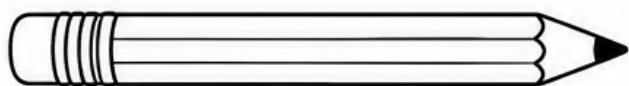
A.



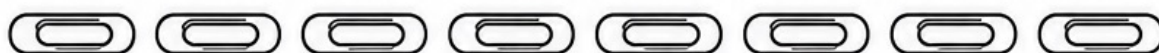
Glue stick = _____ paperclips



B.



Pencil = _____ paperclips



C.



Scissors = _____ paperclips



D.



Book = _____ paperclips



Part 2: Compare

1. The longest object is _____.
2. The shortest object is _____.
3. How many more paperclips long is the book than the glue stick? _____ paperclips.



Same units. No gaps. No overlaps.



Name: ANSWERS

Date: _____

Length Line-Up

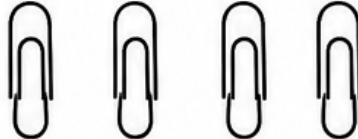
Count the paperclips. Write the length. Then compare.

Part 1: Measure with paperclips

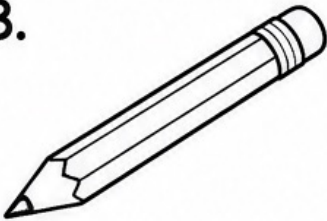
A.



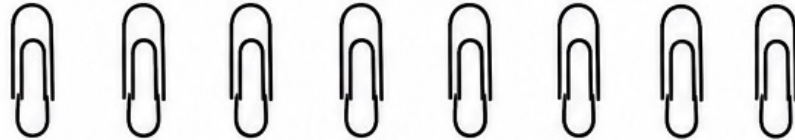
Glue stick = 4 paperclips



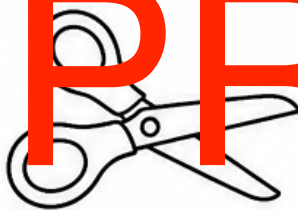
B.



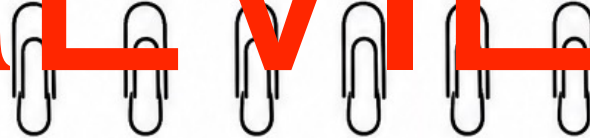
Pencil = 8 paperclips



C.



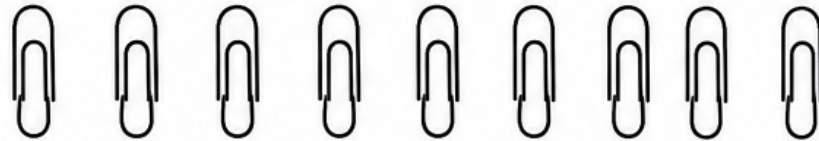
Scissors = 6 paperclips



D.



Book = 9 paperclips



Part 2: Compare

1. The longest object is book.

2. The shortest object is glue stick.

3. How many more paperclips long is the book than the glue stick?

5 paperclips.

Same units. No gaps. No overlaps.

Name: _____

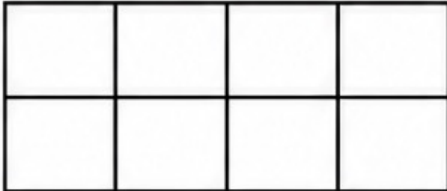
Date: _____

Cover the Area

Count the equal squares. Write the area. Then compare.

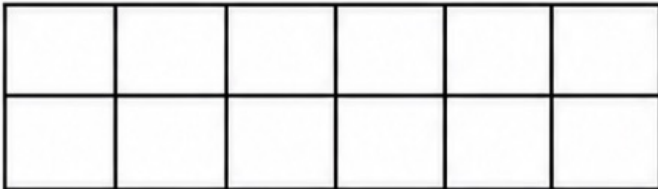
Part 1: Count the squares

A



A area = ____ squares

B



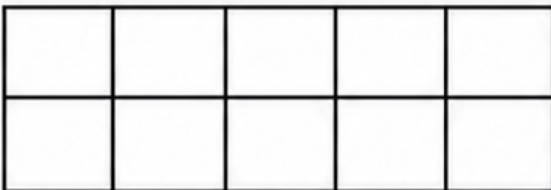
B area = ____ squares

C



C area = ____ squares

D



D area = ____ squares

Part 2: Compare the areas

1. The largest area is shape ____.
2. The smallest area is shape ____.
3. Shape B is ____ squares larger than shape A.
4. Order the shapes from least area to greatest area:

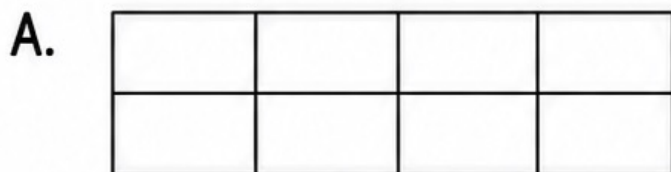
____ , ____ , ____ ,

Equal units cover the surface with no gaps or overlaps.

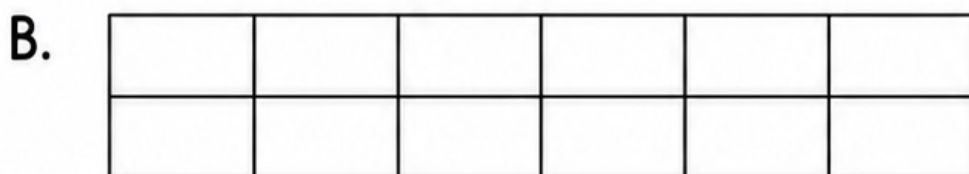
Cover the Area

Count the equal squares. Write the area. Then compare.

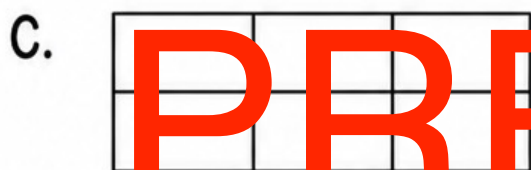
Part 1: Count the squares



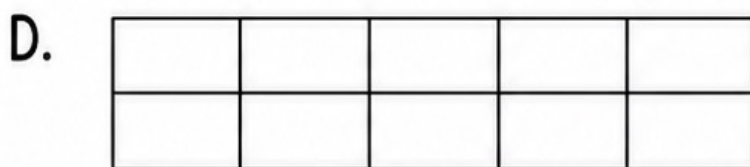
A area = 8 squares



B area = 12 squares



C area = 6 squares



D area = 10 squares

Part 2: Compare the areas

1. The largest area is shape B.
2. The smallest area is shape C.
3. Shape B is 4 squares larger than shape A.
4. Order the shapes from least area to greatest area:

C , A , D , B

Equal units cover the surface with no gaps or overlaps.

Name: _____

Date: _____

Capacity Comparisons

Think about how much each container could hold.

Part 1: Circle the greater capacity

A.



mug

or



jug

B.



cup

or



bucket

C.



spoon

or



bottle

PREVIEW

Part 2: Order from least to greatest capacity

Write these containers in order: spoon, mug, bottle, bucket, tub



1 _____ → 2 _____ → 3 _____ → 4 _____ → 5 _____

Part 3: Choose an informal unit

Which unit would you use to measure the capacity of a lunchbox?

Circle one.



spoon



cup



bucket

Name: **ANSWERS**

Date: _____

Capacity Comparisons

Think about how much each container could hold.

Part 1: Circle the greater capacity

A.



mug

or



jug

B.



cup

or



bucket

C.



spoon

or



bottle

PREVIEW

Part 2: Order from least to greatest capacity

Write these containers in order: spoon, mug, bottle, bucket, tub



1 spoon

→

2 mug

→

3 bottle

→

4 bucket

→

5 tub

Part 3: Choose an informal unit

Which unit would you use to measure the capacity of a lunchbox?

Circle one.



spoon



cup



bucket

Name: _____

Date: _____

Balance Scale Mass

Use the balance scales and cube counts to compare mass.

Part 1: Circle the heavier object

A.



book or toy car

B.



apple or feather

C.



shoe or sock

PREVIEW

Part 2: Compare cube counts

Object	Mass in cubes
feather	1 cube
pencil case	8 cubes
book	12 cubes

1. Order from lightest to heaviest: _____, _____, _____

2. The book is _____ cubes heavier than the pencil case.

A lower side on a balance scale has greater mass.

Name: **ANSWERS**

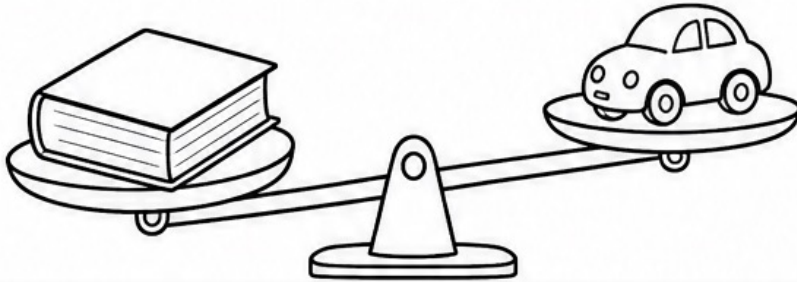
Date: _____

Balance Scale Mass

Use the balance scales and cube counts to compare mass.

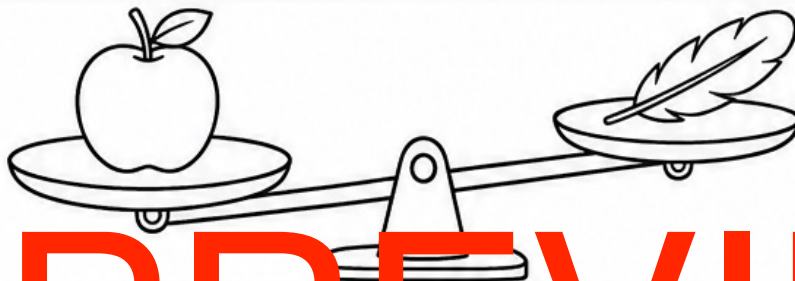
Part 1: Circle the heavier object

A.



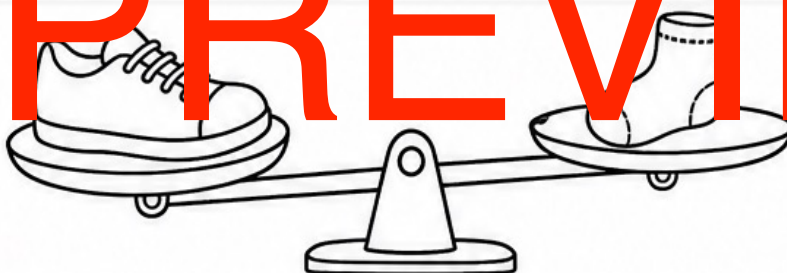
book or toy car

B.



apple or feather

C.



shoe or sock

PREVIEW

Part 2: Compare cube counts

Object	Mass in cubes
feather	1 cube
pencil case	8 cubes
book	12 cubes

1. Order from lightest to heaviest: **feather** , **pencil case** , **book**

2. The book is **4** cubes heavier than the pencil case.

A lower side on a balance scale has greater mass.

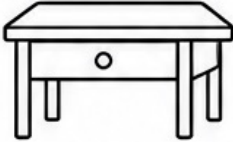
Name: _____

Date: _____

Measurement Mix-Up

Write length, area, capacity or mass.

Part 1: Which measurement idea?



1. How long is the desk?



2. How much flat space is on a book cover?



3. How much can a water bottle hold?



4. How heavy is a lunch box?



5. How much carpet space is covered?



6. How much can a bucket hold?

PREVIEW

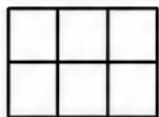
Part 2: Choose a good informal unit

Length



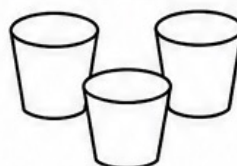
paperclips

Area



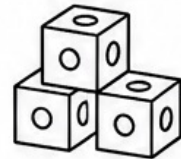
sticky notes

Capacity



cups

Mass



connecting cubes

Choose equal units and explain your thinking.

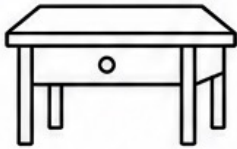
Name: ANSWERS

Date: _____

Measurement Mix-Up

Write length, area, capacity or mass.

Part 1: Which measurement idea?



1. How long is the desk?

length



2. How much flat space is on a book cover?

area



3. How much can a water bottle hold?

capacity



4. How heavy is a lunchbox?

mass



5. How much carpet space is covered?

area



6. How much can a bucket hold?

capacity

PREVIEW

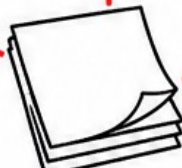
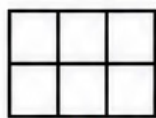
Part 2: Choose a good informal unit

Length



paperclips

Area



sticky notes

Capacity



cups

Mass

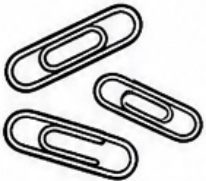


connecting cubes

Choose equal units and explain your thinking.

Name: _____

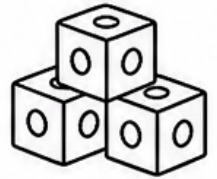
Date: _____



Measurement Lab



Choose equal informal units.
Estimate, measure, record and compare.



Part 1: Plan

My informal unit: _____



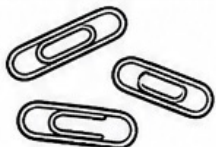
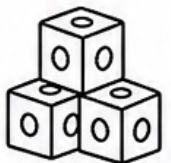
I will measure: length / area / capacity / mass (circle one)

Part 2: Measure and record

Object	Estimate	Measurement	Compare
PREVIEW			

Part 3: Explain

1. How did you keep your measuring fair? _____
2. Which object had the greatest measurement? _____
3. What would you change next time? _____



Use the same unit each time.

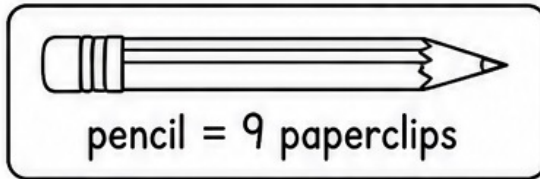
Name: _____

Date: _____

Measurement Check-In

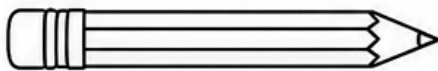
Show what you know about informal measurement.

1.



The pencil is _____
paperclips long.

2. Circle the longer object:



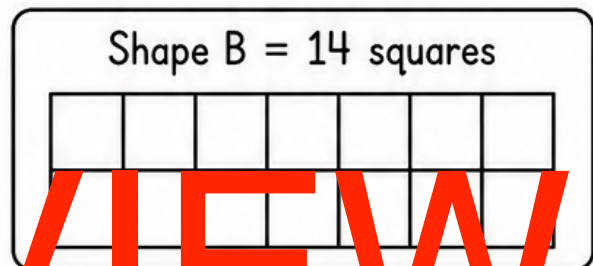
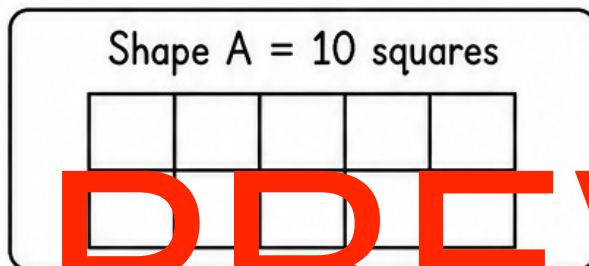
pencil
9 paperclips

OR



glue stick
4 paperclips

3.



Which shape has the larger area?

4. Order from least to greatest capacity: spoon, cup, bottle, bucket.



1 _____

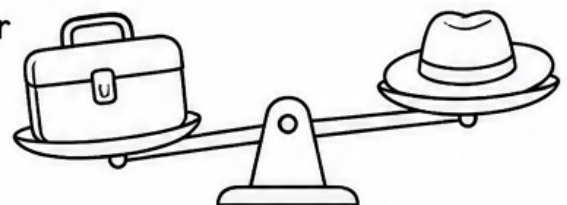
2 _____

3 _____

4 _____

5. On the balance scale, the lunchbox side is lower than the hat side.

Which object has greater mass? _____



6. Match the task to a good informal unit:

Measure desk length

Measure book cover area

Compare mass

• paperclips

• square tiles

• cubes

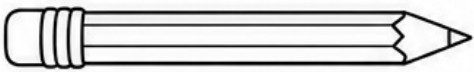
7. Explain: Why should informal units be equal and lined up carefully?

Name: ANSWERS

Date: _____

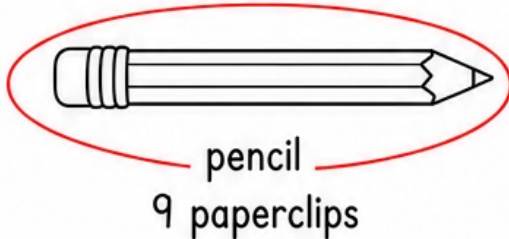
Measurement Check-In

Show what you know about informal measurement.

1.  The pencil is 9 paperclips long.

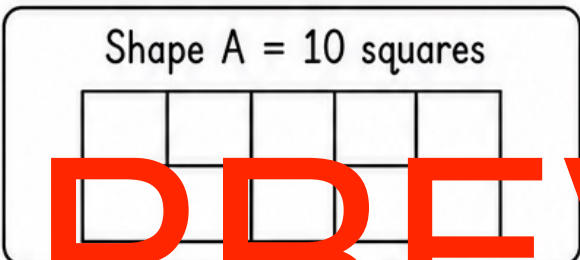
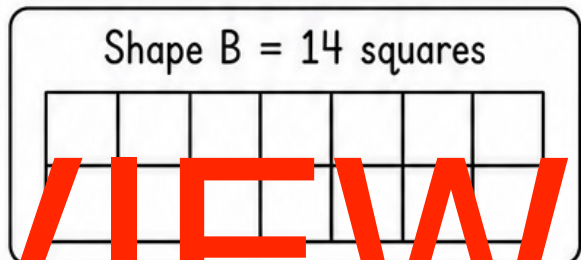
pencil = 9 paperclips

2. Circle the longer object:



OR



3.  Shape A = 10 squares  Shape B = 14 squares
- Which shape has the larger area? Shape B

4. Order from least to greatest capacity: spoon, cup, bottle, bucket.



1 spoon



2 cup



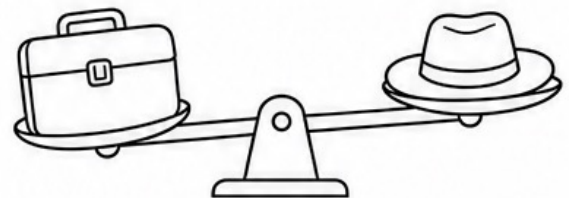
3 bottle



4 bucket

5. On the balance scale, the lunchbox side is lower than the hat side.

Which object has greater mass? lunchbox



6. Match the task to a good informal unit:

Measure desk length

Measure book cover area

Compare mass

paperclips

square tiles

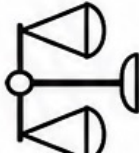
cubes

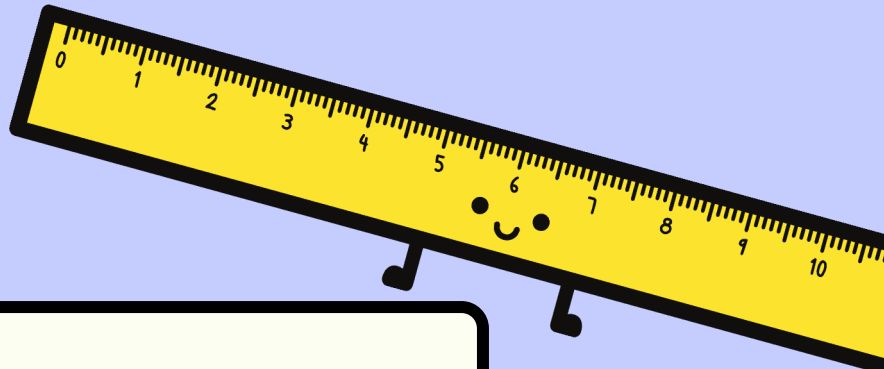
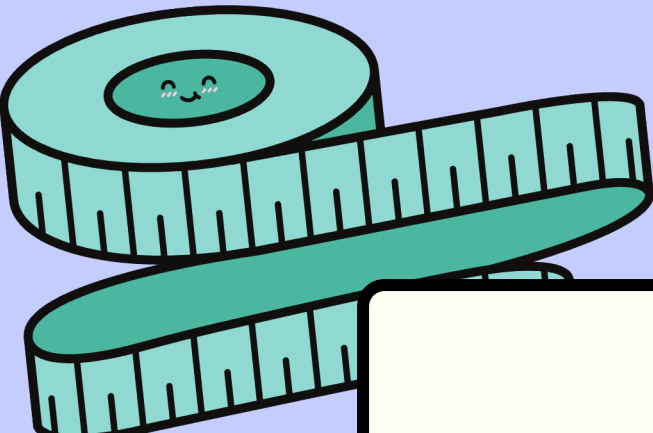
7. Explain: Why should informal units be equal and lined up carefully?

So the measurement is fair and accurate.

Measurement - Year 2 Rubric

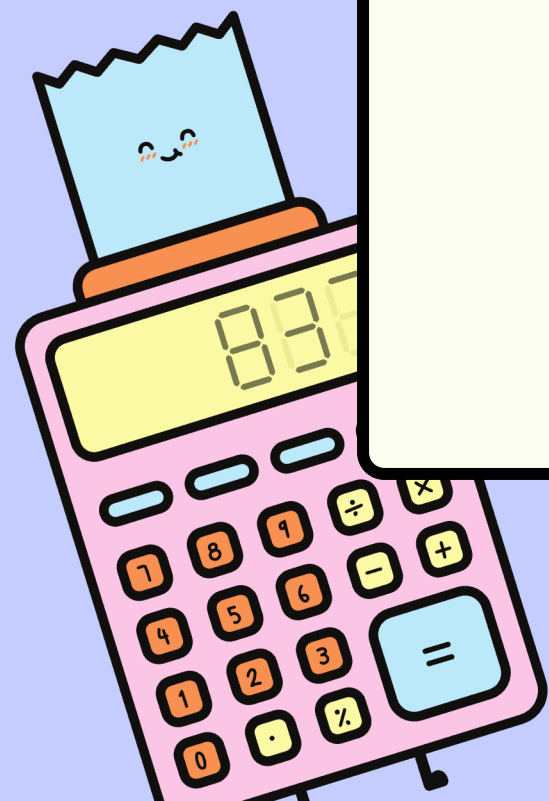
Informal units for length, area, capacity and mass

	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
 1. Suitable units	Needs support.	Sometimes accurate.	Usually accurate.	Accurate and clear.	Accurate, clear and explains why.
 2. Length and area	Needs support.	Sometimes accurate.	Usually accurate.	Accurate and clear.	Accurate, clear and explains why.
 3. Capacity and mass	Needs support.	Sometimes accurate.	Usually accurate.	Accurate and clear.	Accurate, clear and explains why.
 4. Records results	Needs support.	Sometimes accurate.	Usually accurate.	Accurate and clear.	Accurate, clear and explains why.
 5. Explains thinking	Needs support.	Sometimes accurate.	Usually accurate.	Accurate and clear.	Accurate, clear and explains why.



PREVIEW

Measurement Year 2



Learning Goal

PREVIEW

We can compare and order objects using informal units for length, area, capacity and mass.



What Are Informal Units?

PREVIEW

Informal units are everyday objects we use to measure, such as paperclips, cups, sticky notes and cubes.



Measure Fairly

PREVIEW

Use the same unit each time. Place units in a straight line with no gaps and no overlaps.



Comparing Length

PREVIEW

Length tells how long an object is. Count equal units from one end to the other.



Length Example

PREVIEW

A pencil that is 9 paperclips long is longer than a glue stick that is 4 paperclips long.



Comparing Area

PREVIEW

Area tells how much flat space is covered. Use equal squares or sticky notes to cover the surface.



Area Example

PREVIEW

If Shape B covers 14 squares and Shape A covers 10 squares,
Shape B has the larger area.



Comparing Capacity

PREVIEW

Capacity tells how much a container can hold. We can order containers from least to greatest capacity.



Capacity Example

PREVIEW

A spoon holds less than a cup. A bucket holds more than a bottle.



Comparing Mass

PREVIEW

Mass tells how heavy something is. A balance scale helps us compare two objects.



Balance Scales

PREVIEW

The lower side of a balance scale has greater mass. The higher side has less mass.



Choose A Good Unit

PREVIEW

Use paperclips for length, square tiles for area, cups for capacity and cubes for mass.



Estimate, Measure, Check

PREVIEW

Make an estimate first, measure carefully, then check whether the result makes sense.



Explain Your Thinking

PREVIEW

Use words such as longer, shorter, larger area, smaller capacity,
heavier and lighter.

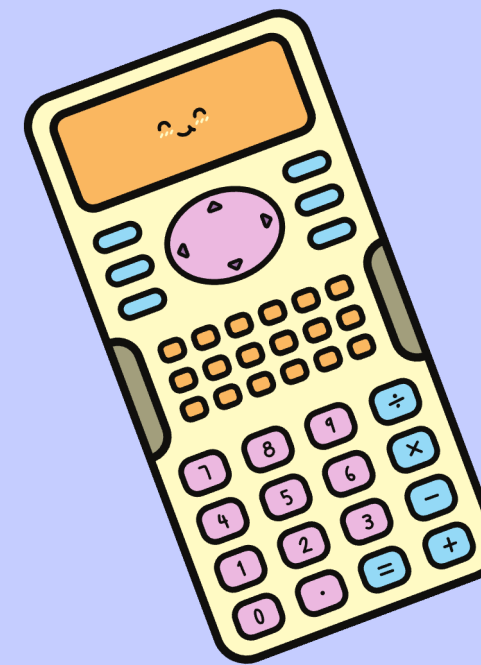
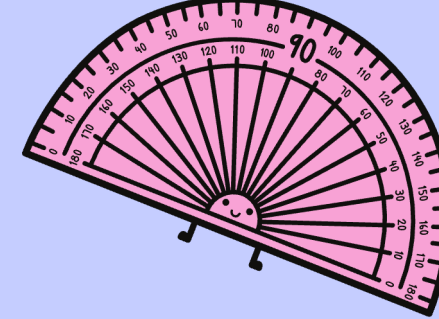
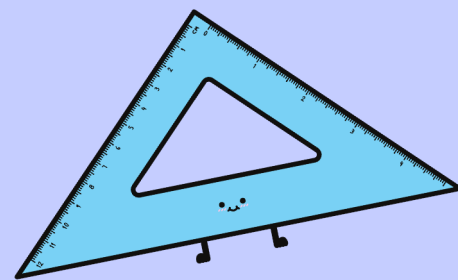
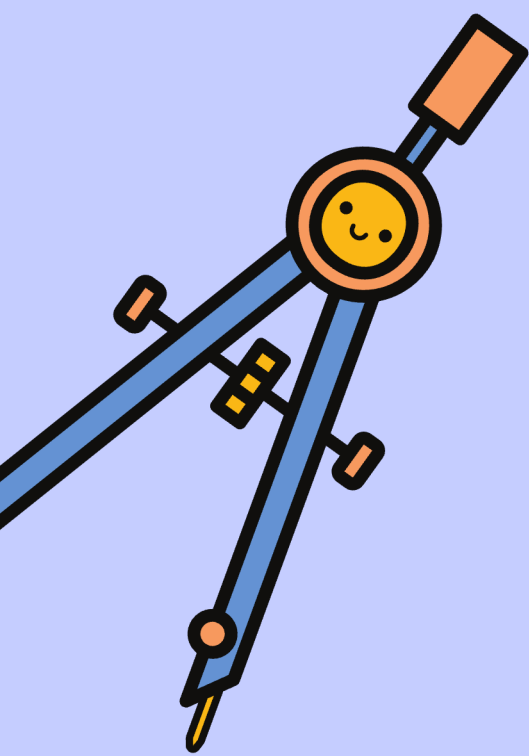


Review

PREVIEW

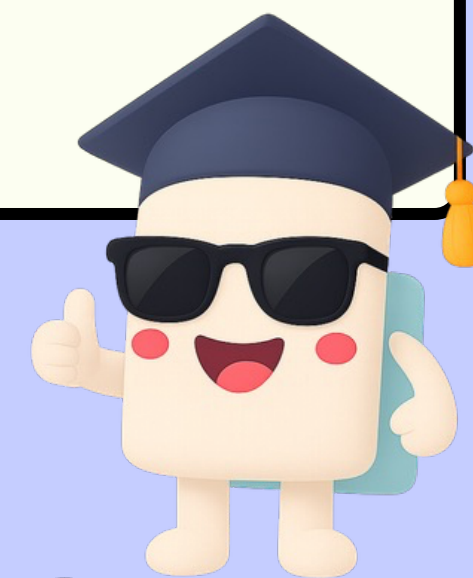
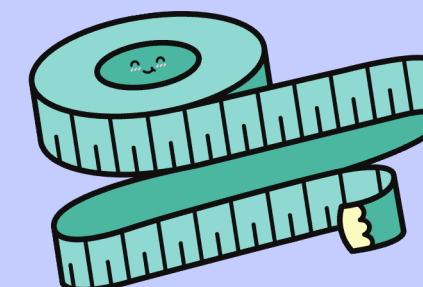
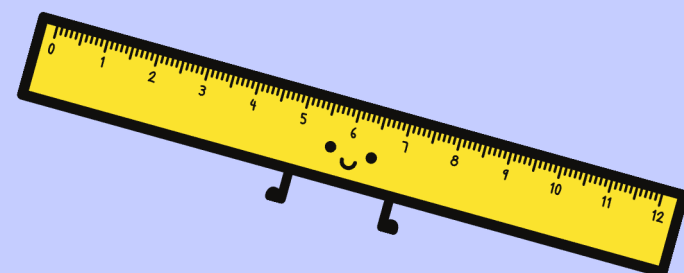
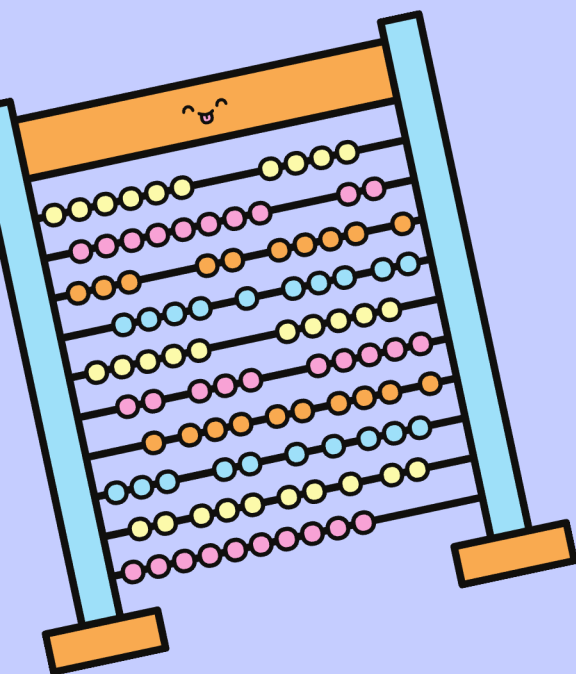
Measure with equal units, record your result, compare clearly and explain why.

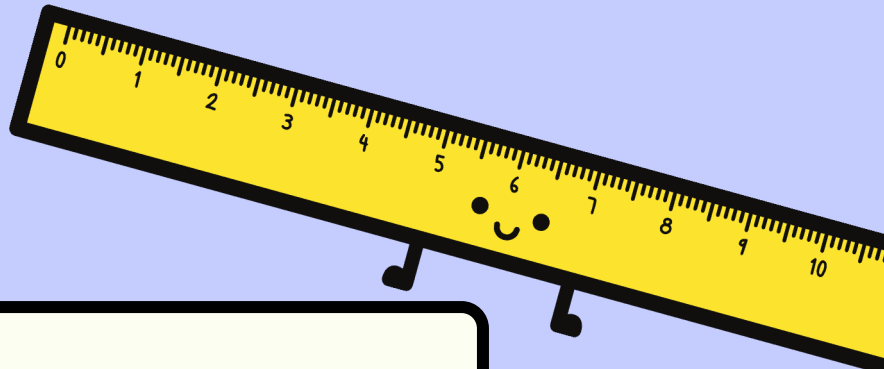
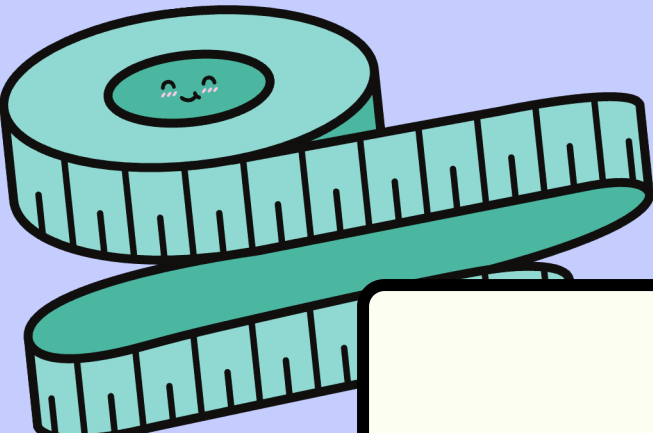




PREVIEW

Great Work!





PREVIEW

Measurement Year 2 Quiz



Question 1

PREVIEW

Question 1

True or false: Informal units should be the same size when you measure.



Answer 1

PREVIEW

Answer 1

True.

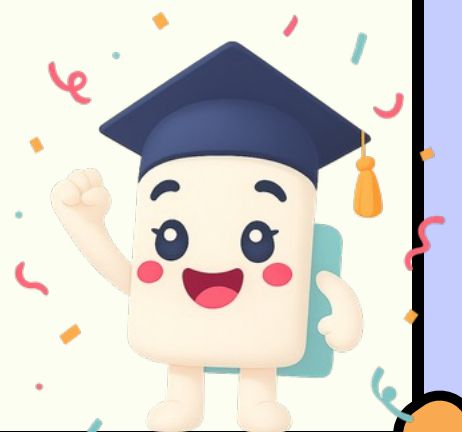


Question 2

PREVIEW

Which informal unit is best for measuring the length of a pencil?

- A. paperclips
- B. buckets
- C. cups
- D. balance scales



Answer 2

PREVIEW

Answer 2

A. paperclips



Question 3

PREVIEW

Question 3

A book covers 12 square tiles. A card covers 8 square tiles. Which has the larger area?



Answer 3

PREVIEW

Answer 3

The book has the larger area.



Question 4

PREVIEW

Which container would usually have the greatest capacity?

A. spoon

B. mug

C. bucket

D. cup



Answer 4

PREVIEW

Answer 4

C. bucket



Question 5

PREVIEW

Question 5

True or false: If one side of a balance scale is lower, that side has less mass.



Answer 5

PREVIEW

Answer 5

False. The lower side has greater mass.



Question 6

PREVIEW

Question 6

Order from least to greatest capacity: bottle, spoon, bucket, cup.



Answer 6

PREVIEW

Answer 6

spoon, cup, bottle, bucket



Question 7

PREVIEW

Which word means how heavy an object is?

- A. length
- B. area
- C. capacity
- D. mass



Answer 7

PREVIEW

Answer 7

D. mass



Question 8

PREVIEW

Question 8

A glue stick is 4 paperclips long. A pencil is 9 paperclips long. Which is longer?



Answer 8

PREVIEW

Answer 8

The pencil is longer.



Question 9

PREVIEW

Question 9

Why should there be no gaps between informal units when measuring length?



Answer 9

PREVIEW

Answer 9

So the measurement is fair and accurate.



Question 10

PREVIEW

Which informal unit is best for comparing mass on a balance scale?

A. connecting cubes

B. cups of water

C. sticky notes

D. paperclips



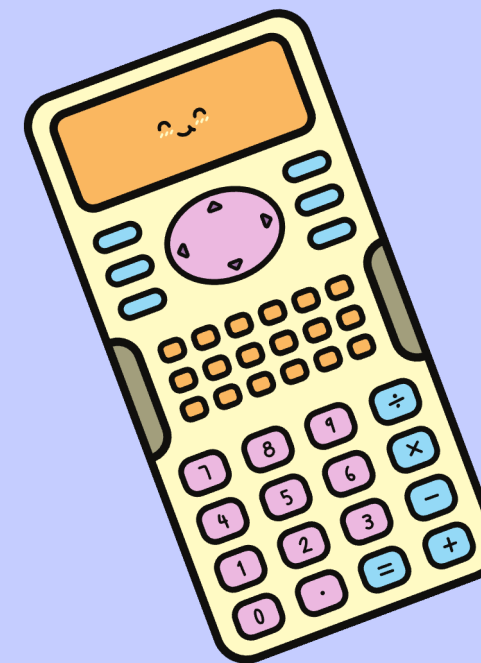
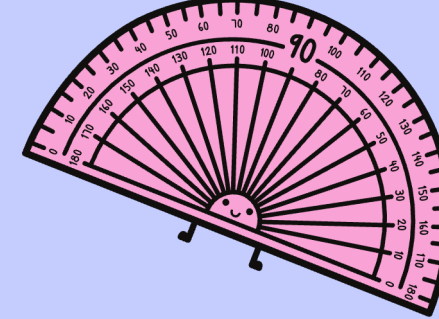
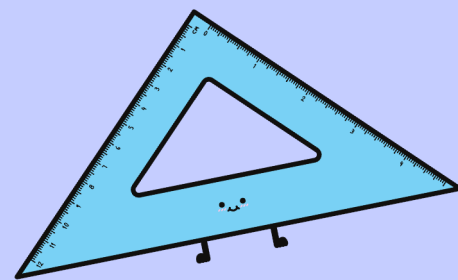
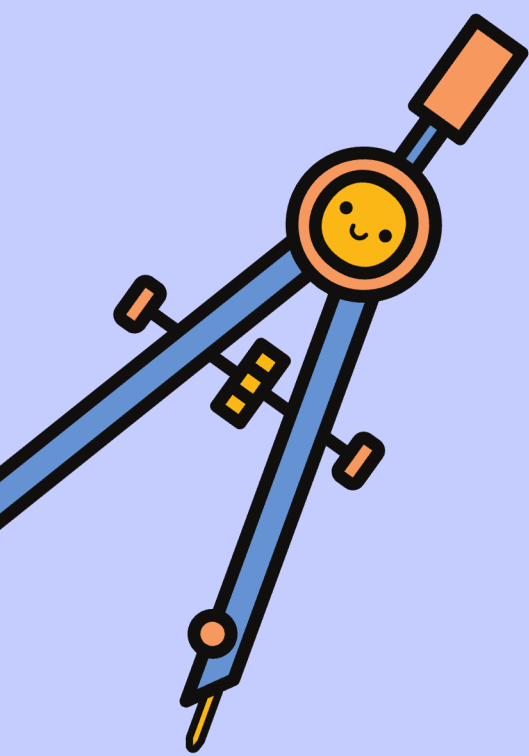
Answer 10

PREVIEW

Answer 10

A. connecting cubes





PREVIEW
Well Done!

