

# Disclaimer/s

We hope you find the information on our website and resources useful.

## Animations

This resource has been designed with animations to make it as fun and engaging as possible. To view the content in the correct formatting, please view the PowerPoint in 'slide show mode'. This takes you from desktop to presentation mode. If you view the slides out of 'slide show mode', you may find that some of the text and images overlap each other and/or are difficult to read.

To enter slide show mode, go to the **slide show menu tab** and select either **from beginning** or **from current slide**.



# Maths

## Measurement

# Need a coherently planned sequence of lessons to complement this resource?

The image shows three overlapping documents from Twinkl Planit. The leftmost document is 'Lesson Breakdown' for 'Money', detailing lessons like 'The Coin Collector' and 'Show Me the Money'. The middle document is 'Introduction' for 'Measurement', listing resources and assessment statements. The rightmost document is 'Measurement Steps to Progression Overview', a grid showing the sequence of topics across 12 weeks, categorized by seasons (Autumn, Spring, Summer).

**Lesson Breakdown**

Below is our suggestion for the most coherent and progressive sequence to teach this area of Planit Maths steps on the White Rose Maths scheme of learning although we have not aimed to mirror the exact order in the scheme.

**Money (1): The Coin Collector**

This metal detecting-themed lesson teaches children to recognise coins and their physical features of coins, learn how some measure pence and some pounds through a fun 'Snag' and board game. Children learn to **compare money** and make different money totals. They also learn facts about time, compare and order time intervals and tell the time on an analogue clock to the nearest five minutes.

Please note: this content is being updated for 2021. For now, please use the current version.

**NC Statement:** Recognise and use symbols for pounds (£) and pence (p).

**Money (2): Show Me the Money**

This lesson focuses on finding the right combination of coins to make a given amount of money. Children learn to **count money** to find a total and **select money** to make a given amount.

Please note: this content is being updated for 2021. For now, please use the current version.

**NC Statement:** Combine amounts to make a particular value.

**Combination of Coins (1): The Coin Exchange**

This fun lesson allows children to use their knowledge of multiples to count money and then move on to exploring how different combinations of coins can be used to make the same value. Children are challenged to investigate how many different ways they can **count money** pence and **make the same amount** of money using different coins.

Please note: this content is being updated for 2021. For now, please use the current version.

**NC Statement:** Find different combinations of coins that equal the same amounts of money.

**Introduction**

This unit will further develop children's concept of measurement in length and height, capacity, weight, money and time. The children use standard units of measure and apply their skills of measuring and recording in a wide range of familiar contexts. They learn the vocabulary they will need to compare and order measurements and develop their reasoning skills through solving practical problems. Children learn the symbols for pounds and pence and make different money totals. They also learn facts about time, compare and order time intervals and tell the time on an analogue clock to the nearest five minutes.

**Resources**

- Measuring tools including rulers, scales, thermometers and measuring vessels
- Clocks
- Coins

**Assessment Statements**

By the end of this unit:

children working towards the expected level will be able to:

- use standard units to estimate and measure length/height (cm/m), mass (g/kg), temperature (°C), capacity (litres/ml) accurately;
- compare and order length, mass, volume/capacity using the language more than, less than and equal to;
- read scales on rulers, scales, thermometers, and measuring vessels in divisions of ones;
- recognise the symbols for pounds (£) and pence (p) and know the value of different coins;
- solve simple, practical one-step measurement problems with all four operations.

children working at the expected level will be able to:

- use standard units to estimate and measure length/height (cm/m), mass (g/kg), temperature (°C), capacity (litres/ml) to the nearest accurate unit;
- compare and order length, mass, volume/capacity using the symbols >, = and <;
- read scales on rulers, scales, thermometers, measuring vessels in divisions of ones, tens and hundreds;
- recognise the symbols for pounds (£) and pence (p) and use different coins to make the same amount of money;
- read and write the time on an analogue clock to the nearest 5 minutes;
- know there are sixty minutes in one hour and twenty-four hours in one day;

**Measurement**

Maths | Year 2 | Steps to Progression Overview

The aim of this overview is to support teachers using Planit Maths to show the most coherent and progressive sequence to teach each area of maths. We also want to fully support teachers who use the White Rose Maths scheme of learning to make full use of the resources available within Planit Maths. Wherever possible, lesson packs have been matched to each of the small steps on the White Rose Maths scheme of learning.

**Yearly Overview**

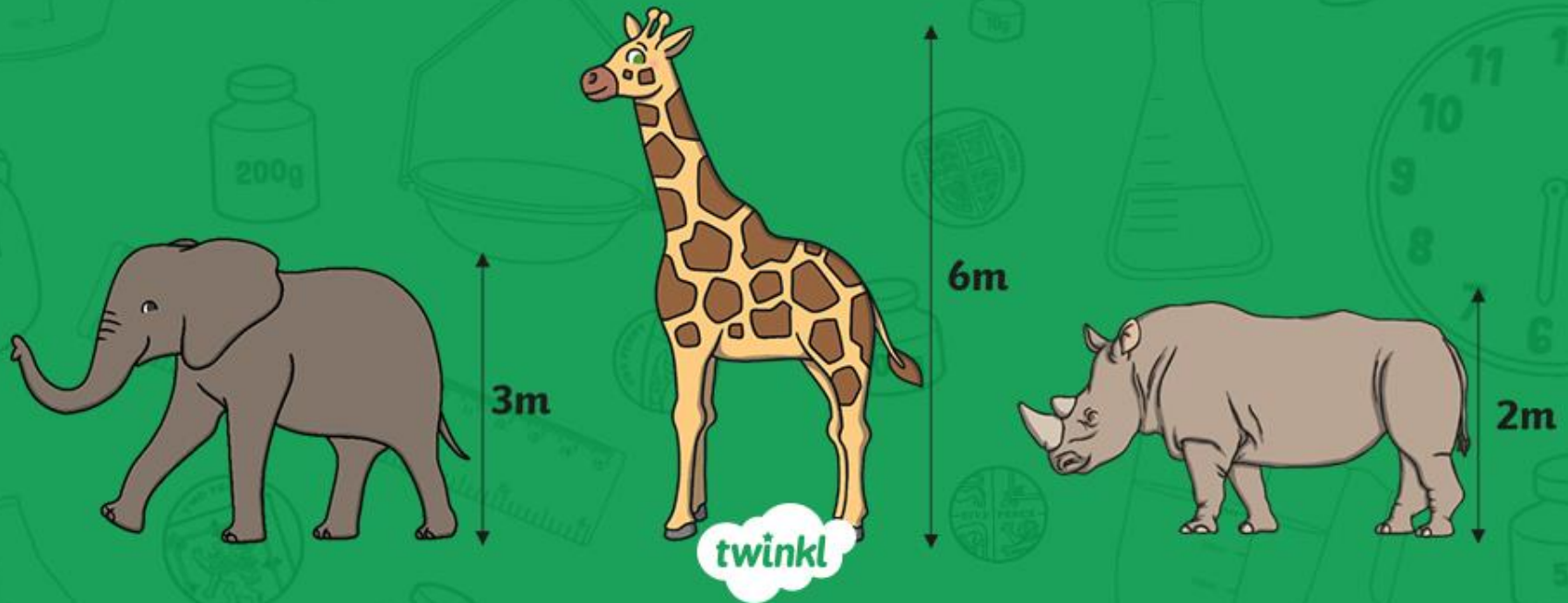
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Addition and Subtraction			Measurement: Money		Number: Multiplication and Division				
Spring	Number: Multiplication and Division	Statistics		Geometry: Properties of Shape			Number: Fractions		Measurement: Length and Height	Consolidation		
Summer	Position and Direction	Problem Solving and Efficient Methods		Measurement: Time		Measurement: Mass, Capacity and Temperature		Investigations				

See our [Measurement Steps to Progression](#) document.

Twinkl Planit is our award-winning scheme of work with over 4000 resources.



# Ordering Lengths and Heights



# Aim

- To order lengths and heights.

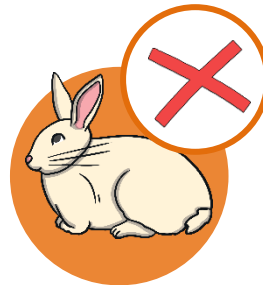
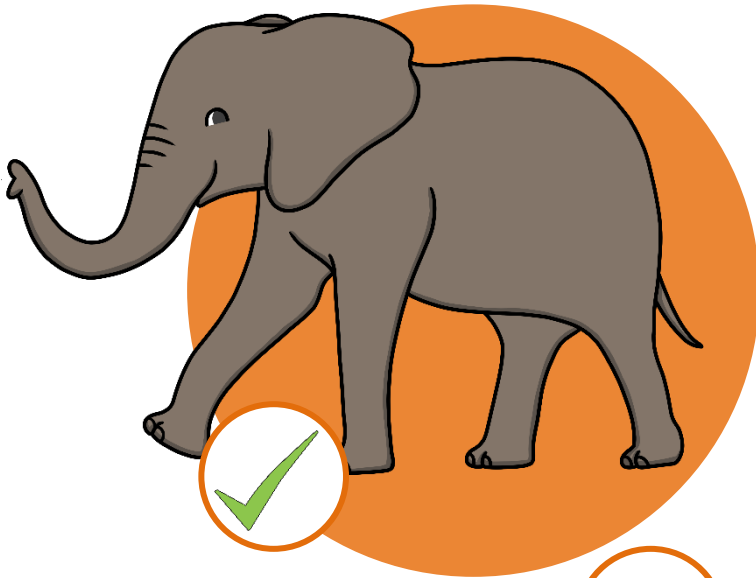
# Success Criteria

- I can order lengths from shortest to longest.
- I can order lengths from longest to shortest.
- I can order heights from shortest to tallest.
- I can order heights from tallest to shortest.

# Remember It



Click the animals you would measure the **height** of in **metres**.

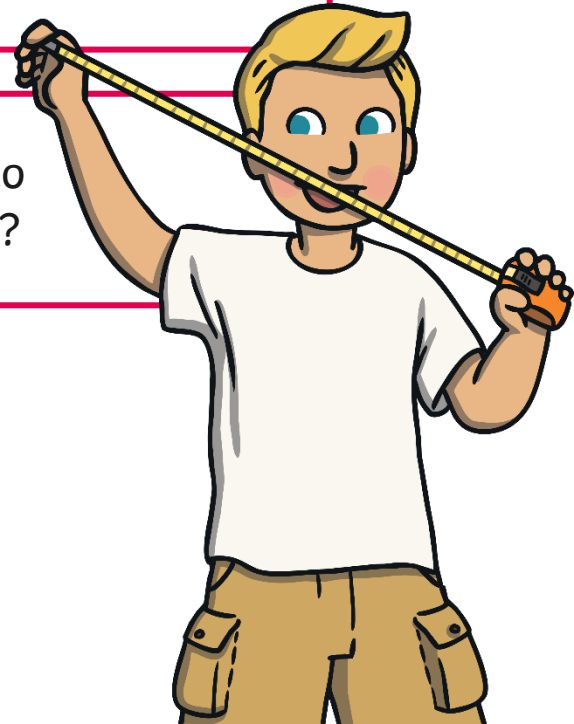


# Remember It



When should we measure in **centimetres**?

What **equipment** would you use to measure an object in **centimetres**?



# Remember It



Click the correct word to complete the sentence.

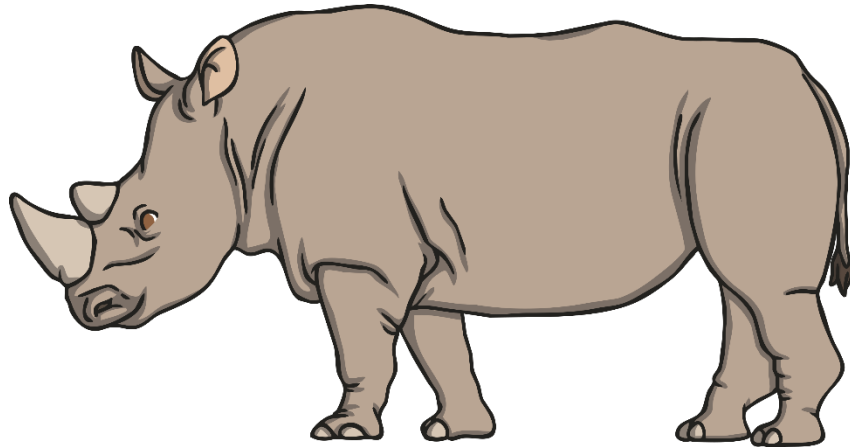
I can measure the length of a rhino in metres .

kilograms

metres

minutes

litres



How did you know which word to choose?

Why is it better to measure the rhino in **metres** instead of **centimetres**?



# Remember It



Click the correct word to complete the sentence.

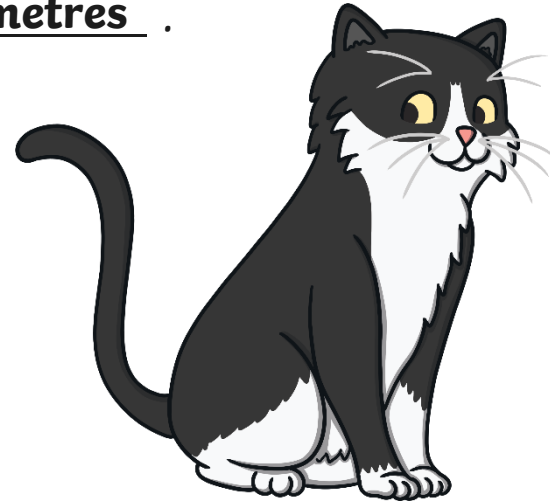
I can measure the height of a cat in centimetres .

centimetres

kilograms

minutes

litres



How did you know which word to choose?

Why is it better to measure the cat in **centimetres** instead of **metres**?

# Comparing Length and Height



Which symbol will complete these statements?



13cm



31cm

5 metres



5m

70cm



7 centimetres

How can you check?

# Comparing Length and Height



How could we use symbols in this statement?



7 centimetres



13cm



31cm



70cm

What do you notice about these lengths?

They are ordered from **shortest** to **longest**.

# Comparing Length and Height



How could we use symbols in this statement?



70cm



31cm



13cm



7 centimetres

What do you notice about these lengths?

They are ordered from **longest** to **shortest**.

# Ordering Lengths



We can use our understanding of comparing lengths to help us to order them.



First, let's find the **shortest** length.

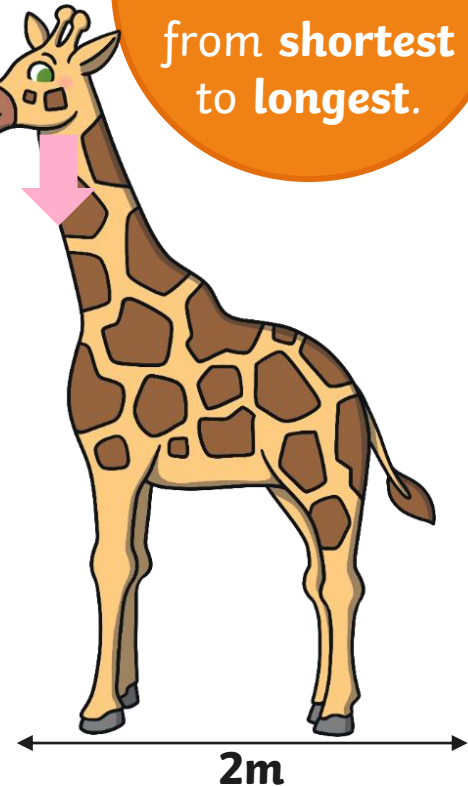
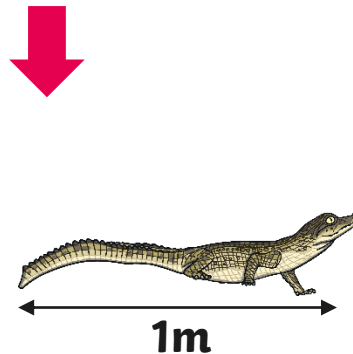
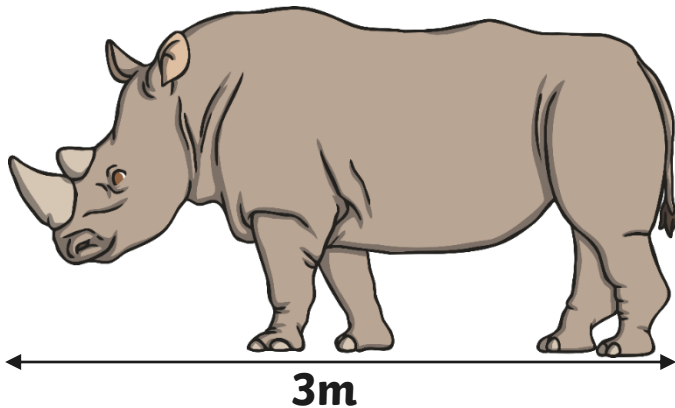


Now, let's find the **next shortest** length.



Finally, we can position the **longest** at the end.

Let's order the lengths of these animals from **shortest** to **longest**.



# Ordering Lengths

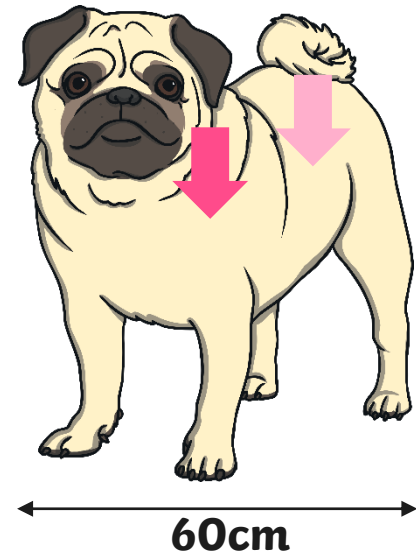
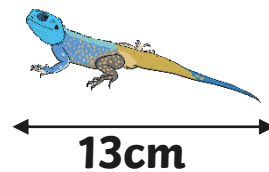
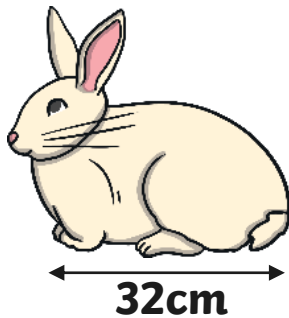


First, let's find the **longest** length.

Now, let's find the **next longest** length.

Finally, we can position the **shortest** at the end.

This time, let's order the lengths of these animals from **longest to shortest**.

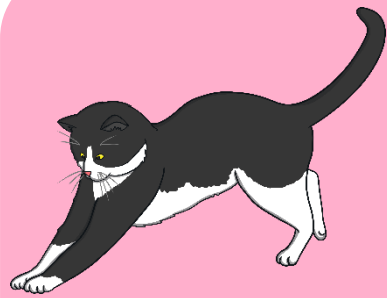


# Ordering Lengths



Can we order the lengths of these animals from **shortest** to **longest**?

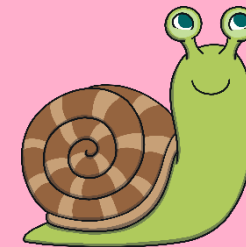
Four empty rounded rectangular boxes for writing the order of the animals.



52cm



13cm



5cm



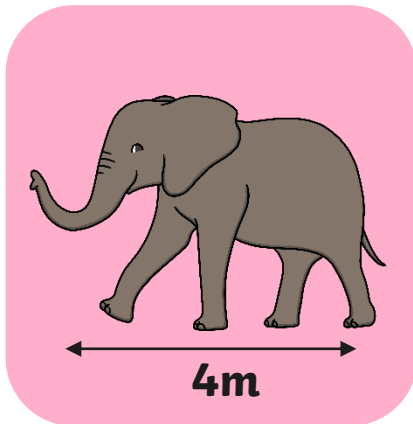
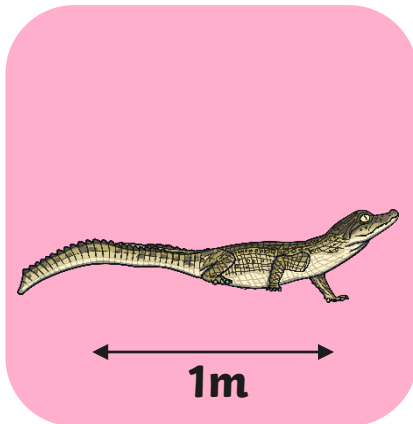
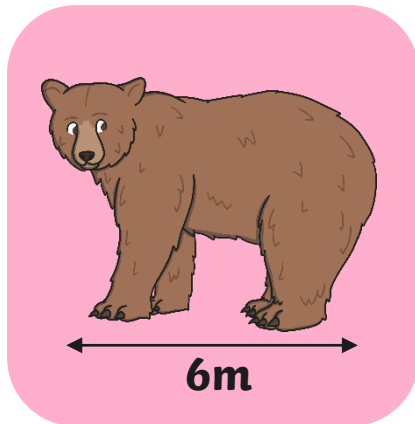
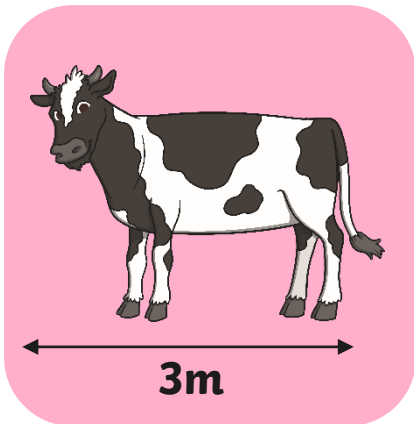
20cm

# Ordering Lengths



Can we order the lengths of these animals from **longest** to **shortest**?

Four empty rounded rectangular boxes for writing the order of the animals from longest to shortest.





# Ordering Heights



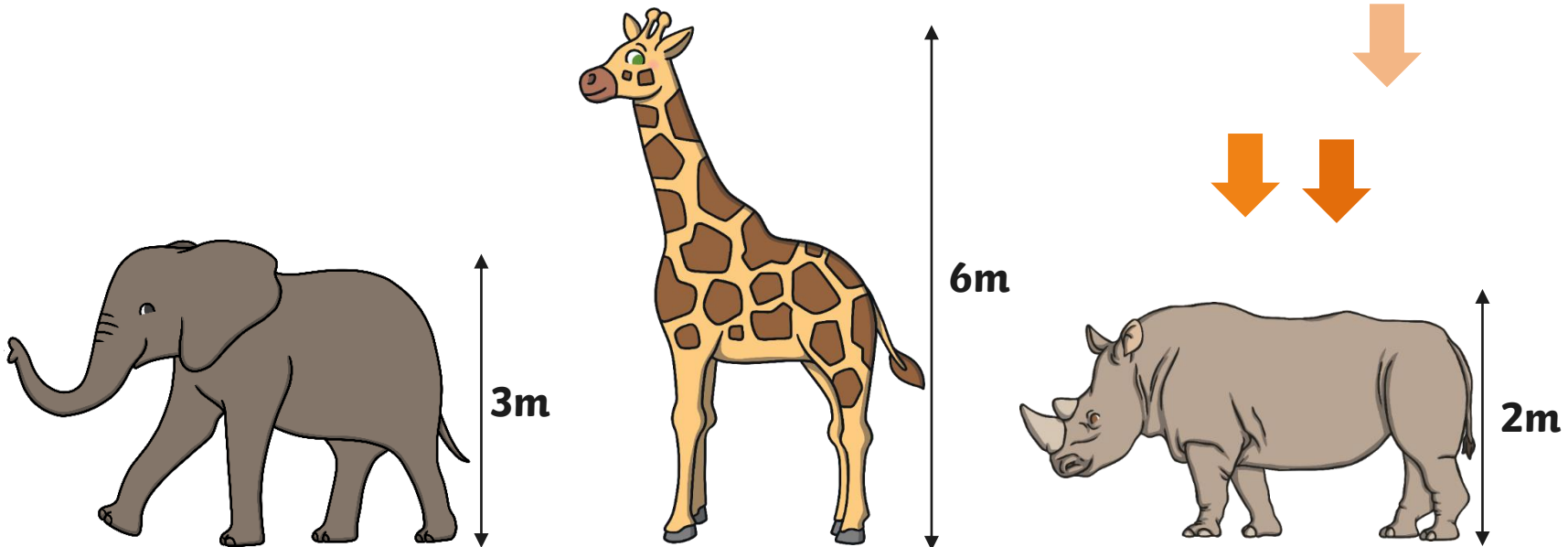
We can order heights in the same way we order numbers.

First, let's find the **shortest** height.

Now, let's find the **next shortest** height.

Finally, we can position the **tallest** at the end.

Let's order the heights of these animals from **shortest** to **tallest**.



# Ordering Heights

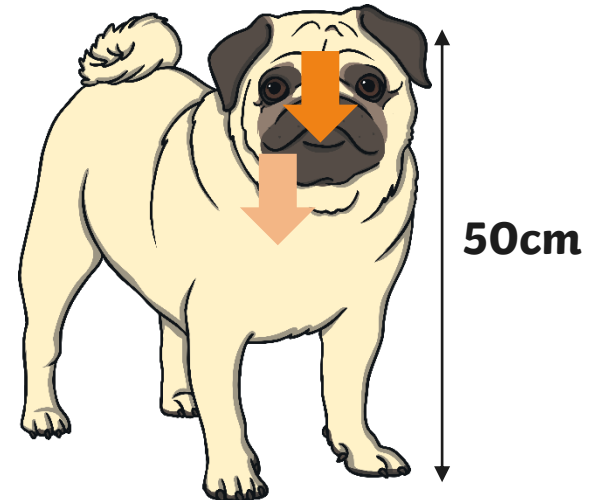
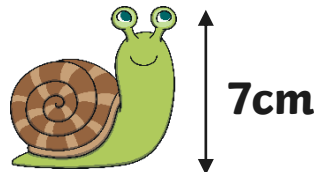
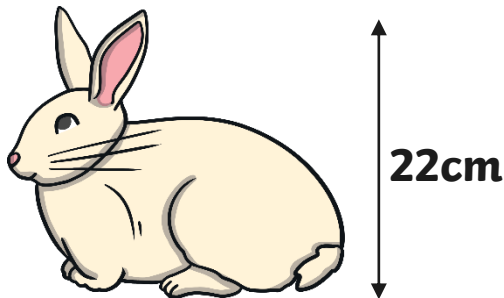


First, let's find the **tallest** animal

Now, let's find the **next tallest** animal.

Finally, we can position the **shortest** animal at the end.

This time, let's order the heights of these animals from **tallest to shortest**.

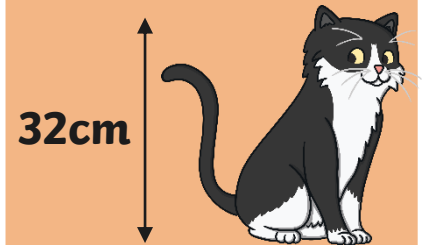
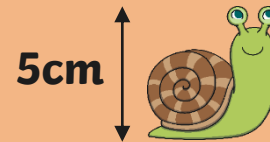
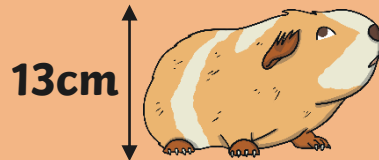
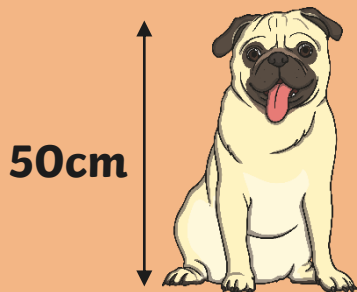


# Ordering Heights



Can we order the heights of these animals from **shortest** to **tallest**?

Four empty rounded rectangular boxes for ordering the animals.

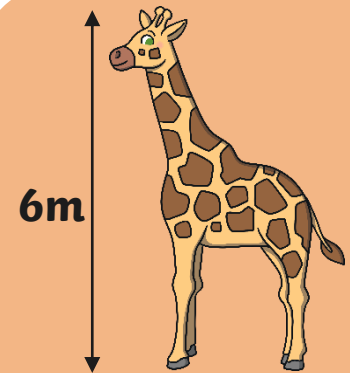
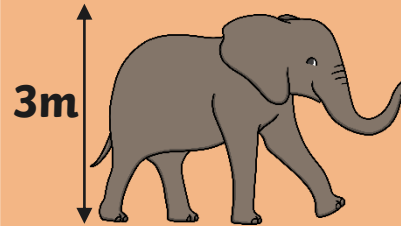
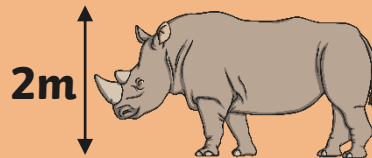
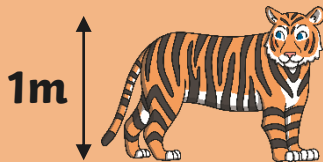


# Ordering Heights



Can we order the heights of these animals from **tallest** to **shortest**?

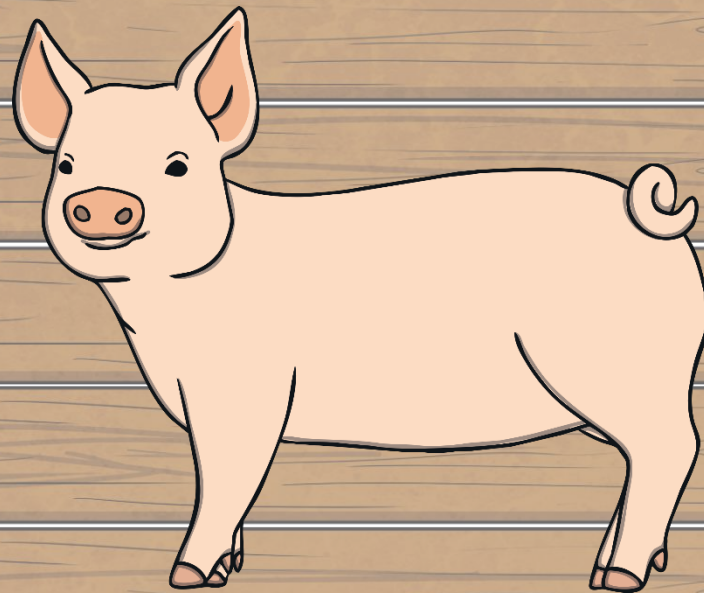
Four empty rounded rectangular boxes for ordering the animals from tallest to shortest.



# Ordering Measuring Accurately

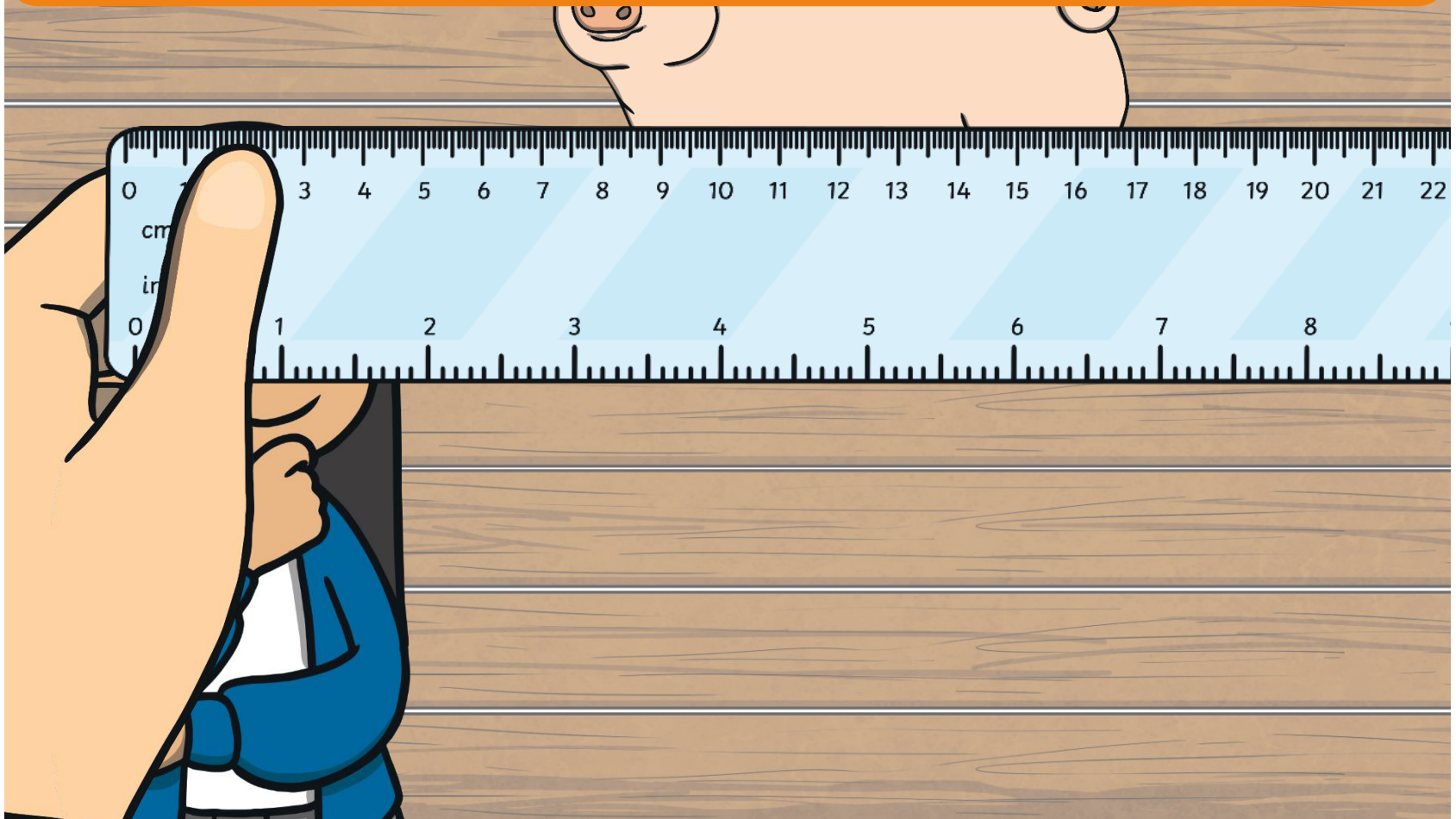


We will be **measuring** animals before we order them.  
How can I **measure length** and **height** accurately with a ruler?



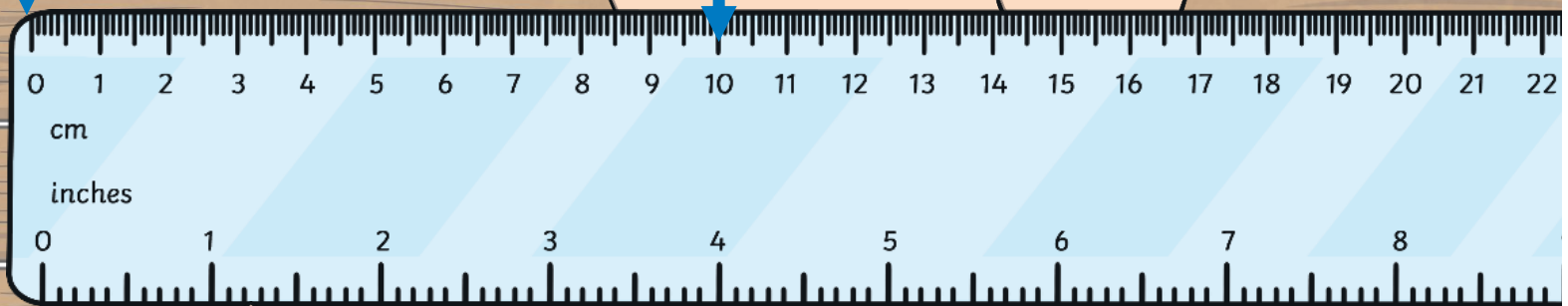
## Measuring Accurately

Let's remind ourselves how to measure the **length** of an object step by step, by measuring this pig.



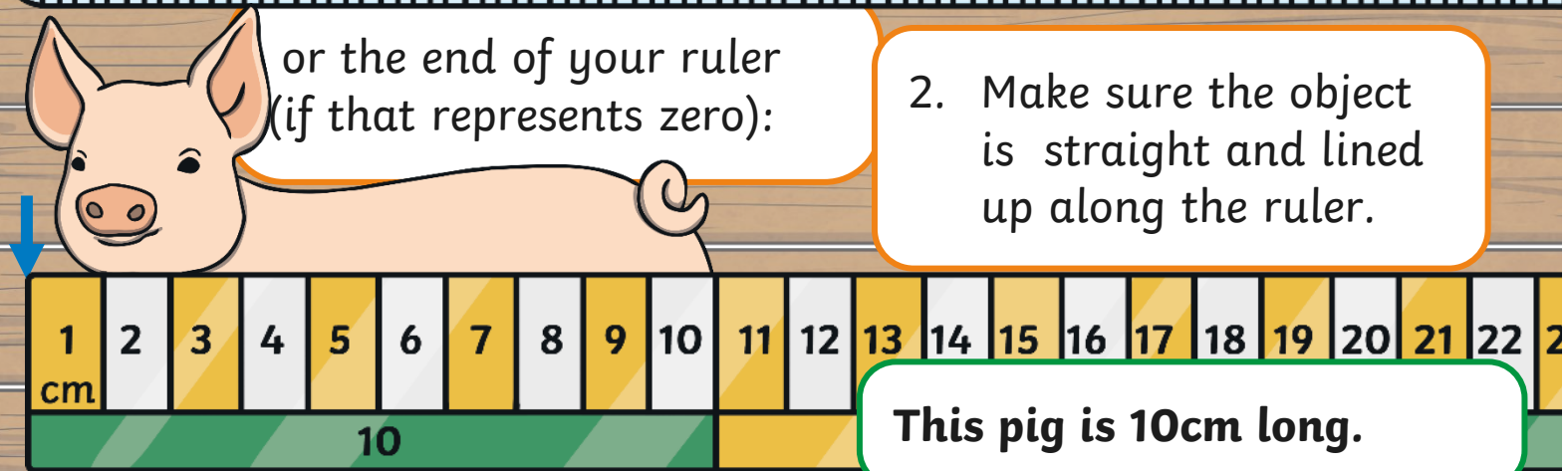
## Measuring Accurately

1. Make sure the object you are measuring is lined up either with zero or the end of your ruler (if that represents zero).



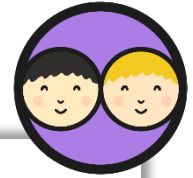
or the end of your ruler  
(if that represents zero):

2. Make sure the object is straight and lined up along the ruler.



**This pig is 10cm long.**

# Measure and Order



## Measure and Order

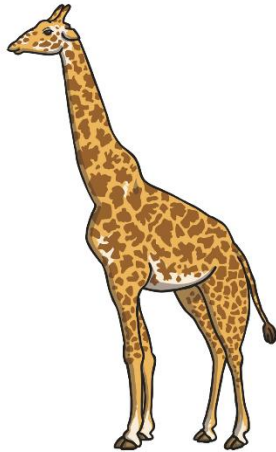
To order lengths and heights

## Measure and Order

To order lengths and heights

## Measure and Order

D cm



Shortest

Tallest

## Challenge

## Challenge

## Challenge

## Challenge

Can you order the animals from **shortest** to **longest**?

The tiger **grew 7cm longer**. What is its new length?

---

Does this change the order of the animals? Explain how.

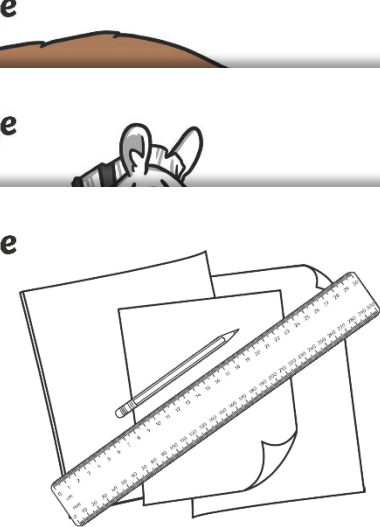
---

---

A lion is longer than the zebra but shorter than the bear. What could its length be? Explain how you know.

---

---





## Diving into Mastery

Dive in by completing your own activity!



### Order Lengths

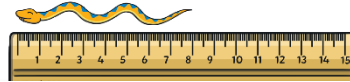
Can you order the objects from longest to shortest?



### Order Lengths

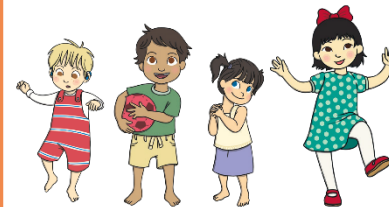


I have ordered the toy snakes from shortest to longest.



### Order Lengths

4 friends are ordering their younger brothers and sisters from **shortest to tallest**.



Anita is 70cm tall. She is the shortest.

Hari is 5cm taller than Anita.

Sam is the tallest. She is 85cm tall.

James is taller than Hari but shorter than Sam.

Hari

James

Anita

Sam

Write their names in order of shortest to tallest.

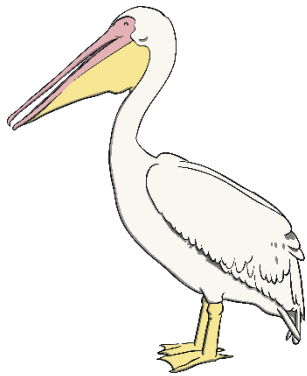
Name

# Mystery Height

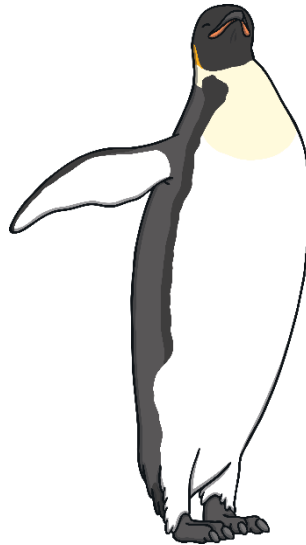


Can you use these clues to work out what the height of the penguin could be?

The penguin is 10cm shorter than the ostrich.



50cm



80cm



90cm

# Aim



- To order lengths and heights.

# Success Criteria

- I can order lengths from shortest to longest.
- I can order lengths from longest to shortest.
- I can order heights from shortest to tallest.
- I can order heights from tallest to shortest.



twinkl