

Introduction

This unit will introduce children to the concept of measurement in different areas, such as length and height, capacity, weight, money and time. Children learn the vocabulary they will need to compare and describe measurement and develop their reasoning skills through solving practical problems. The children explore both non-standard and standard units of measure and apply their skills of measuring and recording in a wide range of real life contexts. They also learn to sequence events in chronological order, use language related to dates and begin to tell the time on an analogue clock.

Resources

In addition to your standard maths resources you will need model UK Sterling coins and a wide range of equipment for comparing and measuring length and height, capacity, weight and time.

A water tray, a variety of containers and aprons - Understanding Capacity (1): Comparing Capacities, Measuring Capacity (1): Measuring Capacities, Measuring Capacity (2): Litres and Millilitres

Baking equipment: wooden spoon, whisk, recipe book, spatula, metal spoon, measuring spoon, pastry cutter, pastry brush - Understanding Weight (2): Weight Problems

Small dolls or soft toys - Measuring Weight (1): Measuring Weight

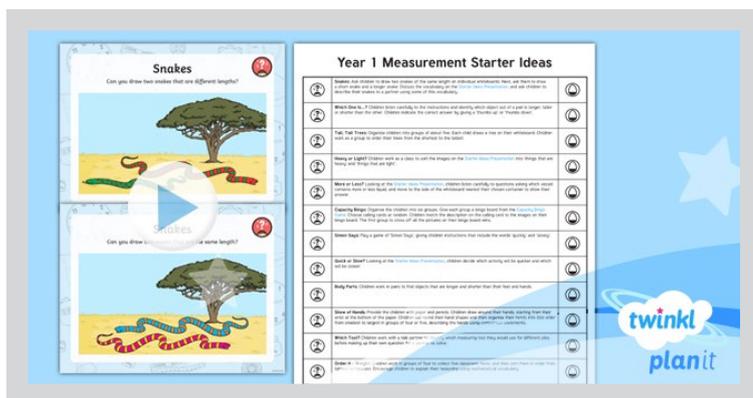
Teddy bears - Solve It Lesson: Teddy Measures



Solve It Lesson Pack: Teddy Measures

What can we find out about our teddy bears using measures?

This open-ended investigation will give children the opportunity to use the full range of their comparing, describing, measuring and recording skills to collect and present information about teddy bears.



Starter Ideas

Assessment Statements

By the end of this unit...

...all children should be able to:

- describe lengths and heights, capacities and weights using appropriate vocabulary;
- measure length and heights, capacities and weights using non-standard units;
- participate in practical activities involving length and height, capacities and weights;
- use a sand timer to measure one minute;
- recognise coins and notes;
- recognise and use the names of the days of the week and months of the year;
- talk about simple events in chronological order;
- tell the time to the hour on an analogue clock.

...most children will be able to:

- compare lengths and heights, capacities and weights using appropriate vocabulary;
- solve simple practical problems about lengths and heights, capacities and weights using appropriate vocabulary;
- begin to measure lengths and heights, capacities and weights using standard units;
- use a stopwatch to measure a time in seconds;
- know the value of coins and notes;
- order the days of the week and the months of the year;
- use appropriate vocabulary to sequence familiar events in chronological order;
- tell the time to the hour and half past the hour, and draw hands on a clock face to show these times.

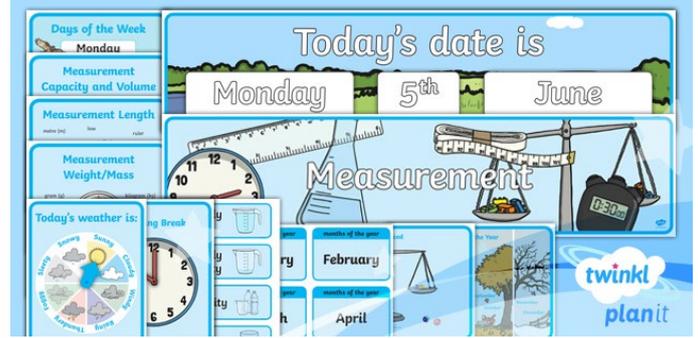
...some children will be able to:

- reason about lengths and heights, capacities and weights to solve more complex problems;
- measure and record lengths and heights, capacities and weights using simple standard units;
- use an analogue clock to calculate a duration in hours;
- combine coins and notes to make a given value;
- interpret calendars and dates;



Challenge Cards

- use appropriate vocabulary to sequence more complex events in chronological order;
- calculate the difference between two times shown on analogue clock faces.



Display Pack

Lesson Breakdown

Compare, describe and solve practical problems for lengths and heights.

Understanding Length and Height (1)

Comparing Lengths and Heights

I can compare and describe lengths and heights.

Understanding Length and Height (2)

Length and Height Problems

I can solve problems involving length and height.

Home Learning: Comparing Lengths and Heights

Children complete differentiated practical activities using mathematical vocabulary to compare lengths and heights.

Understanding Weight (1)

Comparing Weights

I can compare and describe weights.

Understanding Weight (2)

Weight Problems

I can solve problems involving weights.

Home Learning: Comparing Weights

Differentiated practical activities involving comparing and describing household objects.

Understanding Capacity (1)

Comparing Capacities

I can compare and describe capacity and volume.

Understanding Capacity (2)

Capacity Problems

I can solve practical problems involving capacity and volume.

Home Learning: Comparing Capacities

These differentiated practical capacity activities involve filling, comparing and labelling containers to different capacities.

Understanding Time (1)

Comparing Times

I can compare and describe time.

Understanding Time (2)

Hours, Minutes and Seconds

I can solve problems by comparing times.

Home Learning: Comparing Times

Children complete differentiated activity sheets, choosing familiar activities and sorting them in order of duration.

Measuring Length and Height (1)

Measuring Length

I can use non-standard units to measure length and height.

Measuring Length and Height (2)

Metres and Centimetres

I can measure length and height using standard units.

Home Learning: Measuring Length and Height

Differentiated practical activities, measuring items around the home using non-standard and standard units.

Measuring Weight (1)

Measuring weight

I can use non-standard units to measure weight.

Measuring Weight (2)

kilograms and Grams

I can measure weight using standard units.

Home Learning: Measuring Weight

These practical activities encourage children to make cakes, using kitchen scales to weigh out ingredients.

Measuring Capacity (1)

Measuring Capacity

I can use non-standard units to measure capacity.

Measuring Capacity (2)

Litres and Millilitres

I can measure capacity using standard units.

Home Learning: Measuring Capacity

Children complete differentiated practical activities, measuring the capacity of different containers using non-standard and standard units.

Measuring Time (1)

Minutes

I can measure and record time in minutes.

Measuring Time (2)

Seconds

I can measure and record time in seconds.

Measuring Time (3)

Hours

I can measure and record time in hours.

Home Learning: Measuring Time

Differentiated activities involving timing activities in seconds and minutes.

Coins and Notes (1)

Recognising Coins and Notes

I can identify and say the value of notes and coins.

Coins and Notes (2)

Ordering Coins and Notes

I can put coins and notes into order of value.

Coins and Notes (3)

Coins and Notes Problems

I can solve practical money problems.

Home Learning: Recognising Coins

Children complete these differentiated activity sheets by making coin rubbings to add up to a given value.

Sequencing Events in Chronological Order (1)

What Happens When?

I can talk about everyday events using sequencing words.

Sequencing Events in Chronological Order (2)

My Day

I can describe everyday events in the correct order.

Sequencing Events in Chronological Order (3)

The Three Little Pigs

I can describe a familiar story in the correct order.

Home Learning: Sequencing Events in Chronological Order

These differentiated activity sheets encourage children to draw the events of their weekend then talk and write about them in order.

Language Related to Dates (1)

Days of the Week

I can recognise and use the names of the days of the week.

Language Related to Dates (2)

Months of the Year

I can recognise and use the names of the months of the year.

Language Related to Dates (3)

Dates and Calendars

I can read dates and calendars.

Home Learning: Language Related to Dates

Children fill in differentiated activity sheets about days of the week and months of the year.

Telling the Time (1)

O'Clock Times

I can use a clock to tell the time to the hour.

Telling the Time (2)

Half Past Times

I can use a clock to tell time to half past the hour.

Telling the Time (3)

Clock Hands

I can draw hands on a clock to show o'clock times and half past times.

Home Learning: Telling the Time

Children complete differentiated activity sheets, drawing hands on the clock to show o'clock and half past times and drawing what they are doing at that time of day.