

# Year 2 Measurement, Dimensions, Mass and Capacity: A Step-by-Step Guide for Parents

This step-by-step explanation to measurement, dimensions, mass and capacity can help you support your child's learning at home. The subject is broken down into manageable steps, providing you with a simple guide to follow when exploring measures together, either as part of homework or if you decide to give your child some extra support. Whether your child is estimating and measuring length, height, weight and temperature, or combining amounts of money, you will find a step that matches your child's stage of learning as well as some ideas for the next steps in your child's learning.

Within **this area of the website**, you will find a selection of resources intended to help your child learn about each step of this guide. Each step also contains a keyword or phrase that you can use to search the Twinkl site for more resources and activities, designed to support your child in achieving that stage. Simply type the keyword or phrase into the search bar and press enter to explore together.



We hope you find the information on our website and resources useful. The contents of this resource are for general, informational purposes only. This guide is intended to offer parents general guidance on what subject areas tend to be covered in their child's year group and where they could support their children at home. However, please be aware that every child is different and information can quickly become out of date. There are some subject areas that we have intentionally not covered due to the nature of how they are taught or because a trained professional needs to teach these areas. We try to ensure that the information in our resources is correct but every school teaches the national curriculum in its own way. If you would like further guidance or are unsure in any way, we recommend that you speak to your child's teacher or another suitably qualified professional.

# Measurement, Dimensions, Mass and Capacity

## What Is Measurement, Dimensions, Mass and Capacity?

Measurement is all about height, length, width, weight, capacity, money, temperature and time.

During year 2, your child will learn to use their knowledge and understanding of different measures to make sensible estimates about them. They will be able to guess how long, tall or heavy an object is, then use different equipment (rulers, tape measures, scales, thermometers, measuring jugs) to measure the object and check their estimate.

Your child may also start to explore money in more detail. They will begin to understand the link between pounds (£) and pence (p), describing that 100p is the same as £1. They will learn to solve problems involving adding together different amounts of money and working out change from amounts when buying items.

Being able to tell the time more accurately is a key skill for your child to learn. Up to this point they will have already learnt to tell the time to the hour and half past the hour, but at this stage they will hopefully begin to tell the time using 5-minute intervals. They will learn to recognise the difference between 'to' and 'past' the hour, for example, 20 past 10, or 10 to 9, and recognise quarter past and quarter to the hour.

A further part of understanding time is recognising the number of seconds in a minute, minutes in an hour, hours in a day and days in a week.

As well as using the resources found in this category and the keyword searches suggested to help your child with exploring measures, below are a few ideas for games and activities to help your child learn about measures, dimensions, mass and capacity.

### Which Is the Larger Value?

To help your child practise finding totals of money, try this comparison game. Give your child two collections of coins and ask them to answer, 'Which has the larger value?'. Your child then has to work out the amount of money in each collection and say which has the larger value. Try mixing up the coins in each collection, including different values of coinage. For example,  $2 \times 5p$ ,  $1 \times 10p$ ,  $3 \times 20p$  and  $1 \times 50p$ .

### Long Jump Guessing

In the garden or any outdoor space, set up a standing long jump area. All you need to do this is to place a marker (e.g. a cone, a mat, a chalk line) from which your child will stand and jump as far as they can. When they have jumped, get them to guess how far they think they have leapt. Place a marker where they landed and get them to use a ruler or tape measure to accurately measure the distance. How close was their estimate?

### Flower Growth

A more long-term activity that your child could do to practise their measuring and estimating skills, is to plant and grow a flower. As the flower grows, your child can use a ruler to measure and record its height. As the flower grows larger, you could get your child to measure the height each week, estimating how far they think it will grow over the next week and then comparing its actual size to the size it was the week before.

### Time Guesser

To help your child develop a greater understanding of time and to help their estimation of time, you could have a try at this 'Time Guesser' game. Using a timer or watch, ask your child to clap their hands when they think a certain length of time has passed. For example, 'Clap your hands when 20 seconds has passed'. For an extra bit of fun, hold a soft object, like a teddy bear or soft ball. Tell your child you will drop the object after a certain number of seconds. They have to correctly count the number of seconds and get ready to catch the object.



## Step 1

### Estimate Measure

By using their knowledge of different measures, your child will learn to estimate a variety of measurements. This will mean that they can look at an object and make a sensible guess as to how long, tall or heavy it is. They may be able to look at a container and estimate how much liquid it is holding. After this, they will use different tools to take accurate measurements to check their estimate and how close they were. They will also learn to recognise and use the correct unit of measure when recording these measurements, realising that we can measure length in centimetres and metres, weight in grams and kilograms, capacity in litres and millilitres and temperature in degrees. **Measure Challenge Cards** are a great way for your child to practise applying their knowledge to different types of measurements.



### Comparing Measurements

After your child has learnt to take more accurate measurements, and their understanding of measures increases, they will begin to start making comparisons between different measurements. They will start to order measurements from smallest to largest and use the symbols  $>$ ,  $<$  and  $=$  to decide which measurements are greater than, less than and equal to one another. **Comparing Measurements** worksheets are a nice way for your child to practise using the symbols  $>$ ,  $<$  and  $=$  to compare and order measurements.

## Step 2

## Step 3

### Money in Year 2

Money is used regularly in day-to-day life. It is a 'real life' maths skill that has applications for your child outside of the classroom. At this stage, your child will begin to recognise and use pounds (£) and pence (p) when working with money. They will recognise that there are 100p in £1 and use this information to solve problems. Using their knowledge of coins and notes, your child will find different ways to make amounts, using their understanding of addition. Problems involving finding totals of coins, such as this **How Much Money Is In My Jar?** worksheet, are an interesting way for your child to practise their understanding of money. You could try getting them to use real coins to solve the problems, adding realism to the worksheets.



## Step 4

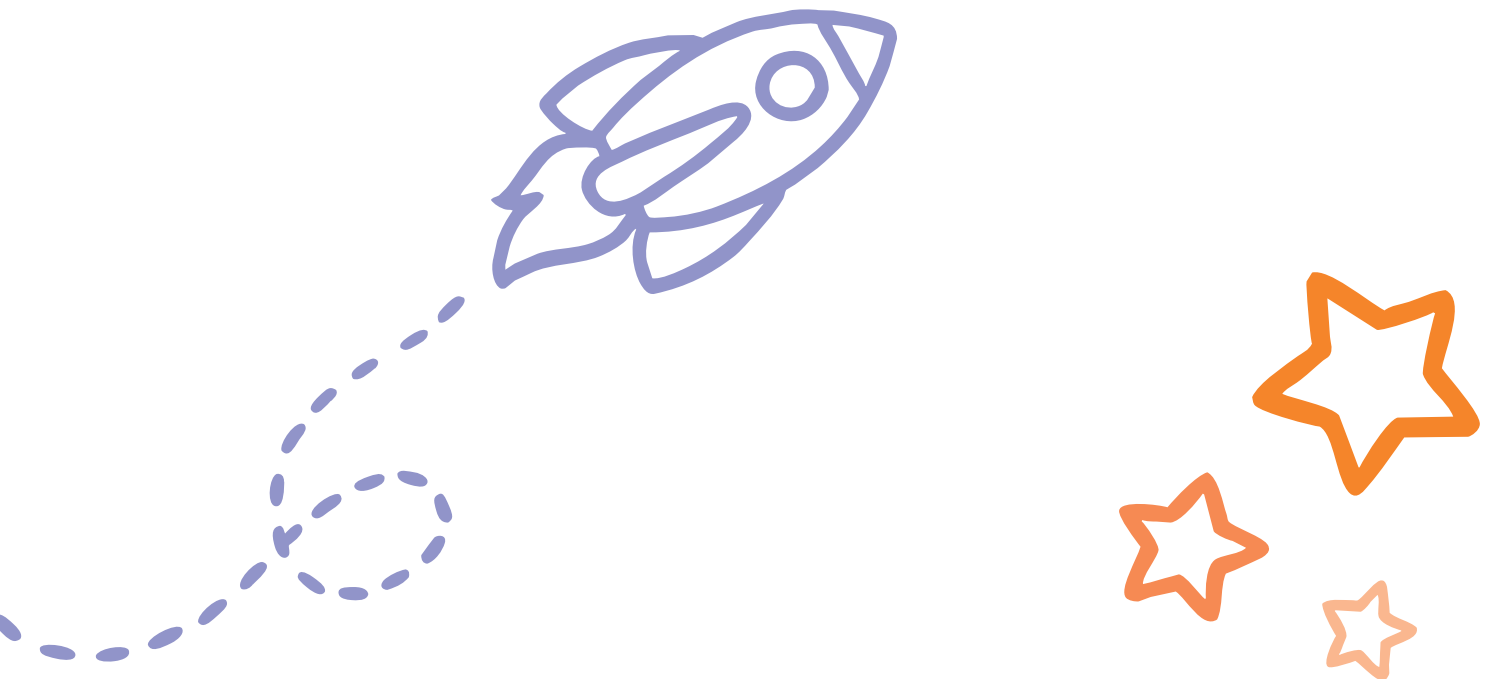
### Intervals of Time

As your child progresses through key stage 1, they should develop a greater understanding of time periods. They will begin to make more accurate judgements about how much time has passed, how long an event takes and which events are longer or shorter than others. They will begin to explore estimating time, counting seconds and keeping track of time. Sorting games where your child must decide which events they can carry out in a certain length of time, such as this **What Can You Do In A Second/Minute/Hour Game**, are fun ways for them to develop a greater understanding of lengths and time.

### Telling the Time

In year 2, your child will begin to tell the time and read an analogue clock with more accuracy. Up to this point, your child will have explored reading the time to the hour and half past the hour. They will now begin to explore reading a clock using 5-minute intervals. They will begin to recognise the difference between 'past' and 'to' times (for example, 10 past 5 or 20 to 11) and identify quarter past and quarter to. As part of learning about time, your child will also recognise how many minutes are in an hour (60 minutes in 1 hour) and hours in a day (24 hours in a day). Time games such as this **Telling the Time Board Game** are a fun chance for your child to practise reading clocks.

## Step 5



# Explore and Discover More

Twinkl Go! is a digital platform, hosting interactive content such as videos, games, audiobooks and more. Twinkl Go! enables digital content to be streamed to your computer or mobile device.



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twinkl  
Book Club

Twinkl Book Club is our book subscription service. Enjoy our original works of fiction in beautiful printed form, delivered to you each half-term and yours to keep!



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Boost

Twinkl Boost is a range of intervention resources, created to support and lift learning with children at every level. These include our easy-to-use SATs and Phonics Screening resources.



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imagine

Imagine resources are designed to help your children to think creatively, question and imagine. Every week, a new topic consisting of five photos, each with related activities, is created.



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ORIGINALS

Twinkl Originals are engaging stories written to inspire children from EYFS to KS2. Designed to encourage a love of reading and help curriculum-wide learning through accompanying resources.



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KIDS' TV

Twinkl Kids' TV is our wonderful YouTube channel dedicated to fun and informative video-style resources full of new and creative activities you can try at home!