

Let's compare mass and capacity!: Maths : Year 1 : Spring Term, Week 12



	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To compare and order containers by their capacity.	Children will develop their estimating skills by predicting which containers will have lesser or greater capacity than another, then compare their capacities by filling them with water and ordering them.	<ul style="list-style-type: none"> Can children estimate the relative capacity of two containers, i.e. which has greater/lesser capacity? Can children use appropriate terminology to describe differences between containers with different capacities? Can children compare and order containers by pouring liquid from one to another? 	<ul style="list-style-type: none"> Slides Challenge Cards 1A/1B/1C Access to water, and lots of containers with a variety of capacities Photo Sheet
Lesson 2	To use mathematical language when describing, comparing and measuring containers.	Children will practise using a broader range of vocabulary to describe and compare containers of different dimensions, using their observations to predict which will have the greatest capacity. They may then either directly compare the capacity of pairs of containers of different dimensions, or create their own simple measuring cylinder using scrap materials.	<ul style="list-style-type: none"> Can children use appropriate terminology to describe and compare containers? Can children predict which of a pair or set of containers will have the greatest/least capacity, based on their dimensions? Can children measure, compare and describe the difference in capacity between two containers? 	<ul style="list-style-type: none"> Slides Worksheets 2A/2B/2C Container Capacity Word Bank Access to water and containers with a variety of capacities Challenge Card 2 (FSD...? activity only) Photo Sheet
Lesson 3	To share liquid between containers, noting the level of the liquid when comparing volumes.	Children will be challenged to consider and describe ways in which liquid in a full container may be shared equally between two, three or four containers of equal dimensions and capacity (e.g. bottles of the same size and shape). They may then use a variety of containers to explore ways in which liquid may be shared between containers, and how noting the level of liquid in a container accurately is important when comparing.	<ul style="list-style-type: none"> Can children explore ways of sharing liquids equally between containers? Can children use appropriate terminology to describe their ideas, methods and reasoning? Can children use the level of a liquid in a container to measure it and compare it? 	<ul style="list-style-type: none"> Slides Lots of 500 ml plastic water bottles Worksheets 3A/3B/3C Capacity Checklist (FSD...? activity only) Access to water, and lots of containers with a variety of capacities Photo sheet
Lesson 4	To compare and order objects by mass.	Children will start using the word 'mass' to describe comparing objects using balance scales. They will consider ways in which scales may be used for comparing two or more objects, and use the symbols '<', '>' and '=' to show relative masses of different objects.	<ul style="list-style-type: none"> Can children begin to use appropriate terminology to describe comparing mass? Can children use balance scales to compare mass? Can children use mathematical symbols to show differences in mass between two objects? 	<ul style="list-style-type: none"> Slides Worksheets 4A/4B/4C Balance scales Photo sheet
Lesson 5	To compare the mass of a variety of solids (of the same volume).	Children will learn how 'pourable' solids such as rice or dry pasta can take up the same amount of space, but have different mass. They will explore this concept by measuring and comparing a variety of 'pourable' solids using balance scales.	<ul style="list-style-type: none"> Can children use balance scales to compare the mass of two different solids? Can children compare and order three different solids by mass? Can children prove to themselves that solids of the same volume can have different masses? 	<ul style="list-style-type: none"> Slides Worksheets 5A/5B/5C Challenge Card 5 Photo sheet A variety of solids such as rice, sand or dried pasta Balance scales