

How hot is it?: Maths : Year 2 : Spring Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To know and use some vocabulary associated with temperature.	Children will explore the language associated with feeling and measuring temperature. They are encouraged to draw on their experiences of hot and cold weather and objects in order to compare temperatures.	<ul style="list-style-type: none"> Can children generate some of the vocabulary used to describe temperature? Can children compare the feeling of different temperatures and describe them? Can children sort objects depending on their temperature? 	<ul style="list-style-type: none"> Slides Hot water bottle Cold pack (one frozen/activated, one unfrozen) Object Cards 1A Worksheet 1A/1B Photo Sheet 1A Challenge Cards 1A (FSD? activity only) Selection of objects to measure temperature e.g. covered mug of warm water, ice, refrigerated water, hot water bottle, etc. (FSD? activity only)
Lesson 2	To read the scales on thermometers to measure temperature.	Children are introduced to the equipment and units of measure for measuring temperature. They will explore the different types of thermometers that can be used to measure temperature in different ways before focusing on mercury thermometers and reading various scales on them. The scales they investigate will be in steps of one, two, five or ten.	<ul style="list-style-type: none"> Can children name the unit used to measure temperature? Can children read a simple scaled used to measure temperature? Can children measure temperature using a scale with unmarked increments? 	<ul style="list-style-type: none"> Slides Thermometers Worksheet 2A/2B/2C Photo Sheet 2A Template 2A/2B (FSD? activity only) Flashcards 2A/2B (FSD? activity only)
Lesson 3	To compare temperatures using $<$, $>$ and $=$.	Children recap using the comparison symbols $<$, $>$ and $=$ to compare numerical amounts which have been represented in different ways. They then move on to using these symbols to compare different temperatures which they have to read from various thermometer scales.	<ul style="list-style-type: none"> Can children describe what each of the $<$, $>$ or $=$ symbols mean? Can children make a comparison between two temperatures? Are children able to use the comparison symbols $<$, $>$ or $=$ accurately? 	<ul style="list-style-type: none"> Slides Worksheet 3A/3B/3C Temperature Cards 3A Symbol Cards 3A Photo Sheet 3A
Lesson 4	To find the difference between two temperatures.	Children recap their mental and written methods for subtraction before applying these to finding the difference between different temperatures. They will find small differences between two two-digit numbers, using the thermometers scales as number lines to help their calculations.	<ul style="list-style-type: none"> Can children find the difference between two similar temperatures? Are children able to find the difference between two temperatures below 100°C? Can children describe their methods for finding the difference? 	<ul style="list-style-type: none"> Slides Map Card 4A/4B Worksheet 4A/4B Photo Sheet 4A Thermometer Cards 4A Worksheet 4C (FSD? activity only) Different containers to hold water (FSD? activity only) Warm water (FSD? activity only) Thermometers (FSD? activity only)
Lesson 5	To use reasoning and problem solving skills.	Children are challenged to apply what they have learnt about measuring and calculation with temperature in a variety of problem solving situations. They must use their reasoning skills to justify any choice they make when problem solving.	<ul style="list-style-type: none"> Can children compare and order temperatures? Are children able to use reasoning to justify their choices? Can children find the difference between two temperatures? 	<ul style="list-style-type: none"> Slides Photo Sheet 5A Challenge Cards 5A Thermometer Cards 5A Worksheet 5A Challenge Cards 5B/5C (FSD? activity only) Worksheet 5B (FSD? activity only)