

Positive and Negative Numbers: Maths : Year 5 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
Lesson 1	To be able to multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	Children will recap the effect of multiplying and dividing numbers by 10, 100 and 1000, including decimals. Children will then apply this to any number between 1 and 100,000 through a variety of differentiated activities.	<ul style="list-style-type: none"> • Can the children multiply and divide by 10? • Can the children multiply and divide by 100? • Can the children multiply and divide by 1000? 	<ul style="list-style-type: none"> • Slides • Worksheet 1A/1B/1C • Operation Cards (FSD? activity only) • Number Cards 1A/1B (FSD? activity only)
Lesson 2	To be able to order positive and negative numbers.	Children will start by counting on and back in tens from a four-digit number. They will then move on to exploring what happens when a larger number is taken away from a smaller number (such as 7 - 12), expressing the answer as a negative number. They will order negative numbers on a number line and start to order positive and negative numbers.	<ul style="list-style-type: none"> • Can the children order negative and positive numbers on a number line? • Can the children order positive and negative numbers? • Can the children solve calculations involving negative numbers? 	<ul style="list-style-type: none"> • Slides • Worksheet 2A/2B/2C • Calculators (FSD? activity only)
Lesson 3	To be able to use the < and > signs accurately and to order and compare negative numbers.	Children will recap what the < and > symbols mean and use these to compare both positive and negative numbers. They will start by comparing two numbers, then extend to comparing sequences of numbers. They can also play a card game to compare the value or various positive and negative numbers.	<ul style="list-style-type: none"> • Do children understand what a negative number is? • Can the children use the < and > signs correctly? • Can the children order positive and negative numbers? 	<ul style="list-style-type: none"> • Slides • Worksheet 3A • Number Cards 3A/3B • Symbol Cards • Truncated Playing Cards (FSD? activity only) • Action Cards (FSD? activity only) • Instruction Sheet (FSD? activity only)
Lesson 4	To be able to solve problems involving negative numbers in the context of temperature.	Children will start by counting on and back in steps of 100 from a five-digit number. They will then move on to solving problems involving negative numbers in the context of temperature. Children will use line graphs showing the average low and high temperatures for a variety of worldwide cities, using the information to ask and answer questions.	<ul style="list-style-type: none"> • Can children use negative numbers in the context of temperature? • Can children find the difference between a positive and negative number? • Can children use line graphs to interpret temperatures? 	<ul style="list-style-type: none"> • Slides • Worksheet 4A/4B/4C • Graph Sheet • Clue Cards (FSD? activity only) • Graph Cards (FSD? activity only)
Lesson 5	To be able to use negative numbers in the context of money.	Children will start by counting on and back in steps of 1000 from a five-digit number. They will then solve a variety of problems involving negative numbers in the context of overdrafts. Children will work out ending balances from a start figure and amount spent. They can also keep a running track of a balance by adding and taking away different amounts of money.	<ul style="list-style-type: none"> • Can the children order positive and negative numbers? • Can the children calculate differences involving negative numbers? • Can the children calculate money amounts involving negative numbers? 	<ul style="list-style-type: none"> • Slides • Game Board 5A/5B/5C • Counters and dice • Bank Balance Cards 5A/5B (FSD? activity only)