**Grange Primary School**

**LEARNING LADDER 7**

**Understanding Number -   Online Learning**

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| **What i am Learning** | **Game Link** | **Guidance** |
| **(A)** I can round numbers to the nearest 10, 100, 1000, 10000 and 100000 | 1. [Rocket Rounding](https://www.topmarks.co.uk/maths-games/rocket-rounding)
2. [Rounding to nearest 10/100/1000](http://www.snappymaths.com/counting/rounding/interactive/miscrounding/miscrounding.htm)
3. [Dartboard](https://www.topmarks.co.uk/Flash.aspx?f=DartboardNextv2)
4. [Rounding Numbers Rap](https://www.youtube.com/watch?v=pNfz-JU2cKE)
5. [Soccer Estimating](https://www.abcya.com/games/estimating)
6. [Rounding multi digit numbers](https://www.iknowit.com/lessons/d-rounding-multi-digit-numbers-up-to-millions.html)
7. [Rounding to 10, 100, 1000, 100000, 100000](http://www.snappymaths.com/counting/rounding/interactive/miscrounding2/miscrounding2.htm)
 | 1. Choose up to 9999 to the nearest 10 or 9999 to the nearest 100
2. Choose a time limit to complete the challenge in
3. Select input answers > Select HTO to 10 or 100 OR ThHTO to 10, 100 or 1000.
4. You tube Video
5. Use rounding to estimate addition and subtraction calculations. Select + or – then select tens, hundreds or thousands.
6. Rounding numbers quiz
7. Round a variety of numbers
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| **(B)** I can round decimals to the nearest whole number | 1. [Rocket Rounding](https://www.topmarks.co.uk/maths-games/rocket-rounding)
2. [Daily 10](https://www.topmarks.co.uk/maths-games/daily10)
3. [Rounding decimals to the nearest whole number](http://snappymaths.com/counting/rounding/interactive/round1dptowhole/round1dptowhole.htm)
4. [Rounding Decimals to Whole Numbers](https://www.iknowit.com/lessons/d-rounding-decimals-to-whole-numbers.html)
 | 1. Select up to 9.9 to the nearest whole number
2. Select Level 4 > Rounding >Up to 9,9 to the nearest whole number
3. Select a time to complete the quiz in.
4. Quiz on rounding decimals.
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| **(C)** I can read and write numbers to 1000000 | 1. [Number Words to 1 Million](http://www.snappymaths.com/counting/numberwords/interactive/numwordsto1000000/numwordsto1000000.htm)
2. [Convert Between Words and Digits](https://uk.ixl.com/math/year-5/convert-between-words-and-digits-up-to-1000000)
3. [Place Value Song Millions](https://www.youtube.com/watch?v=qJJugG1bTf4)
4. [Numbers to 1000000](https://www.youtube.com/watch?v=DwYfxHzYS1w)
 | 1. Write the number in digits
2. Complete the quiz
3. You Tube Video
4. You Tube Video
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| **(D)** I can estimate positive and negative numbers on a number line | 1. [Numbers on a Number Line](https://mathsframe.co.uk/en/resources/resource/37/placing_numbers_on_a_number_line)
2. [Coconut Ordering](https://www.topmarks.co.uk/ordering-and-sequencing/coconut-ordering)
3. [Counting on a Number Line](https://uk.ixl.com/math/year-5/count-on-a-number-line-up-to-10-in-both-directions)
4. [Counting on a Number Line 100](https://uk.ixl.com/math/year-5/count-on-a-number-line-up-to-100-in-both-directions)
5. [Number Line Workshop](https://mrnussbaum.com/number-line-worksheet)
 | 1. Select –5 to 5, –10 to 10 or –50 – 50
2. Select Numbers > -10 to 10
3. Place the numbers in the correct place on the number line.
4. Place the numbers in the correct place on the number line
5. Change start number to –10 and end number to 10. Change Interval to 10 then update number line. Place the numbers on the number line. You can vary the numbers to make it more challenging.
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| **(E)** I can add and subtract 10, 100 and 1000 | 1. [Counting in 1000s](http://www.snappymaths.com/counting/sequences/interactive/countin1000s/countin1000s.htm)
2. [Adding Powers of 10](http://www.snappymaths.com/counting/sequences/interactive/powers10seq/powers10seq.htm)
3. [Adding Power of 10 Challenge](http://www.snappymaths.com/addsub/addsubp10/interactive/addsubpowers10/addsubpowers10.htm)
4. [Subtracting 1000](http://www.snappymaths.com/addsub/addsubp10/interactive/sub1000int/sub1000int.htm)
 | 1. Practise counting in thousands
2. Figure out the sequence then type in the answer
3. Complete the calculations
4. Solve the subtraction sums
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| **(F)** I can partition numbers into M, HTh, TTh, Th, H, T, O | 1. [Place Value Millionaire](http://www.math-play.com/Place-Value-Millionaire/place-value-millionaire-game_html5.html)
2. [Digit Values](https://www.iknowit.com/lessons/d-place-value-digit-values-up-to-9999999.html)
3. [Place Value to Millions](https://www.iknowit.com/lessons/d-place-value-millions.html)
4. [Place Value Song](https://www.youtube.com/watch?v=gsvrhKka1nc)
 | 1. Place Value version of Who Wants to be a Millionaire.
2. Complete the quiz
3. Variety of questions on plave value to numbers up to millions
4. You Tube Video
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| **(G)** I can multiply and divide by 10, 100 and 1000 | 1. [Multiplying by 10](http://www.snappymaths.com/multdiv/placevaluemultdiv/interactive/multby10imm/multby10imm.htm)
2. [Dividing by 10](http://www.snappymaths.com/multdiv/placevaluemultdiv/interactive/divby10imm/divby10imm.htm)
3. [Dividing 1 digit by 10 or 100](http://www.snappymaths.com/counting/decimals/interactive/div1dby10100/div1dby101000.htm)
4. [Moving Digits](https://www.topmarks.co.uk/Flash.aspx?f=MovingDigitCards)
5. [Multiplying by 10, 100 and 1000](https://www.iknowit.com/lessons/e-multiplying-whole-numbers-by-10-100-1000.html)
 | 1. Practise multiplying by 10
2. Practise dividing by 10
3. Practise dividing 1 digit by 10 or 100
4. Input any number and watch what happens when you multiply or divide by 10 and 100.
5. Complete the quiz
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| **(H)** I can read and write decimal numbers | 1. [What Decimal is Shaded?](https://uk.ixl.com/math/year-5/what-decimal-number-is-illustrated)
2. [Decimals in Words](https://uk.ixl.com/math/year-5/understanding-decimals-expressed-in-words)
3. [Fractions and Decimals](https://www.iknowit.com/lessons/d-fractions-decimals-tenths-hundredths.html)
4. [Write Tenths and Hundredths as Decimals](http://www.snappymaths.com/counting/decimals/interactive/w10th100thdec/w10th100thdec.htm)
 | 1. Write the decimal that matches the picture
2. Read the decimal and write it in numbers
3. Write the decimal for the fraction shown
4. Write the decimal for the fraction shown
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| **(I)** I can order decimal numbers | 1. [Decimal Number Line](https://www.turtlediary.com/game/decimals-on-a-number-line.html)
2. [Tenths on a Number Line](https://mrnussbaum.com/decimal-tenths-on-a-number-line-online)
3. [Coconut Ordering](https://www.topmarks.co.uk/ordering-and-sequencing/coconut-ordering)
4. [Flag Finder](https://www.primaryapps.co.uk/WebGL/FlagFinderWebGL/index.html)
5. [Eggs to Order](https://www.primaryapps.co.uk/WebGL/EggsToOrderWebGL/index.html)
6. [Decimal Numbers in Order](https://uk.ixl.com/math/year-5/put-decimal-numbers-in-order)
 | (1) Choose a level. Aim the cannon and shoot at where the number should be on the number line.(2 Write the correct decimal for the chosen place on the number line(3) Choose Numbers > Up to 10 (1 or 2dp). Also practise Money, length, mass and capacity. Choose 2 or 3dp.(5) Select tenths or Hundredths(6) Select Level 18, 19 or 20 |
| **(J)** I can partition decimal numbers into tenths and hundreths | 1. [Place Value Charts](https://www.topmarks.co.uk/place-value/place-value-charts)
2. [Daily 10](https://www.topmarks.co.uk/maths-games/daily10)
3. [Place Value Pirates](https://mrnussbaum.com/place-value-pirates-online-game)
4. [Place Value in Decimals](https://uk.ixl.com/math/year-5/place-values-in-decimal-numbers)
 | (1) Choose numbers or words > TO.th(2) Choose Level 6 > Digit Values(3) Select Play Decimals > pick the answer from the selection of pirates(4) Complete the Quiz |