A picture containing drawing  Description automatically generated**Grange Primary School**

**LEARNING LADDER 6**

**Understanding Number -   Online Learning**

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| **What i am Learning** | **Game Link** | **Guidance** |
| **(A) I can solve money problems using stratgies involving the four operations** | 1. [CHANGE MAKER](https://www.funbrain.com/games/change-maker) 2. [CASH OUT!](https://mrnussbaum.com/cash-out-online-game) 3. [Piggy Bank](https://www.topmarks.co.uk/money/coins-game) 4. [Custom Car](https://www.ictgames.com/mobilePage/customCars/index.html) | 1. Work out the amount of change: Select Hard > Union Jack Flag > Enter how many of each note or coin you need to make the correct change 2. Calculate the change (in $): Select HARD level > Click on the notes and coins to give the customer the correct change > Click GIVE CHANGE to earn some $$$! 3. Recognising and Using coins: Select Counting > Any 6 coins 4. Counting Money: Select Level 5 > Customise your car by dragging coins to pay point and click CHECK |
| **(B) (I can use analogue and digital time in 12- and 24-hour notation in every day life situations (e.g. timetables)** | 1. [Spinning Clock](https://mathsframe.co.uk/en/resources/resource/116/telling-the-time) 2. [Adding Time Word Problems - Mathsframe](https://mathsframe.co.uk/en/resources/resource/118/adding_time_word_problems) 3. [Microsoft Word - LO - To read timetables (primaryresources.co.uk)](http://www.primaryresources.co.uk/maths/pdfs/reading_timetables.pdf) | 1. Multple choice Time Game: Click play > 4. Read time to the nearest 5 minutes > 12 hour clock Timed Game > Enter your name on the scoreboard! 2. Read the time on either an analogue or digital clock and then answer a word problem involving adding a given time. Find the correct time on an anologue or digital clock. Lots of choice of level, including: adding 1 hour, multiples of 5, or 10 minutes or adding multiples of a quarter of an hour. 3. Read the timetable and answer the questions. |
| **(C) I can use different types of measure (weight, volume and length) including area ad perimeter** | 1. [Which measure am I?](https://mrnussbaum.com/appropriate-metric-units-online) 2. [Mostly Postie](https://www.ictgames.com/mobilePage/mostlyPostie/index.html) 3. [Measure it!](https://www.funbrain.com/games/measure-it) 4. [Measure Up - Beat the Timer gane](https://www.rulergame.net/v2-standard-english-ruler-game.php) 5. [Archaelogy Area!](https://www.funbrain.com/games/shape-surveyor) 6. [VOLUME OF OBJECTS - SONG](https://www.youtube.com/watch?v=GEwheYZX1-s) | 1. Select what ‘unit of measure’ you need to fit the job described 2. Measuring in kgs and ½ kgs > Select kgs and ½ kgs **and/or** answers in steps of 10g> drag parcel onto scale > enter weight > click check and get delivering! 3. Measuring in cm and mm > Select Centimetres Hard (cm & mm) > choose your answer from multiple choice 4. Beat the timer! In preferences box keep timer on > Select Quarters (cm and mm) > Start new and GO! ..careful three strikes and it is Game Over!! 5. Scroll down > Select Hard or Super Brain > Area and Perimeter > Calculate Area or Perimeter to dig and reveal the archaeological find! 6. Relax Listen and LEARN! |
| **(D) I can describe 3D Shapes (including triangles) and recognise their features (symmetry, angles, vertices etc)** | 1. [Shape Factory](https://mrnussbaum.com/shape-factory-online-game) 2. [Shape Sort](https://mathsframe.co.uk/en/resources/resource/115/sorting-3d-shapes-on-a-venn-diagram) 3. [Tangrams](https://www.mathplayground.com/tangrams.html) | 1. Play > Read the challenge > Click all of the shapes that are correct > click black arrow next to Factory Man! For next challenge 2. Play Game > Play > Start Game > Select one or two sort conditions> 3. Start > Read Start > Rotate and drag shapes to fill in the tangrams – use your knowledge of shape properties |
| **(E) I can use sequencing and patterns in problem solving** | 1. [BLAST OFF!](https://www.abcya.com/games/numerical_order) 2. [Chinese Dragon - Ordering](https://www.topmarks.co.uk/ordering-and-sequencing/chinese-dragon-ordering) 3. [Jump Challenge](https://mathsframe.co.uk/en/resources/resource/42/sequences) 4. [CHALLENGE: Dot dot!](https://mrnussbaum.com/dots-online-game) | 1. Click Play (>) > Select 3, 5 or 10 > Drag the Space rocks to the correct position in the number sequence 2. Select Sequencing > Counting in Steps > Steps up to Nine 0 – 100 > Sequence the numbers and click check to pass level 3. Select from Level 10 – 16 options > Difficulty: YOU DECIDE > Click square with correct next value > click next to move on 4. Click Start Game > Read and click continue> watch the dots keeping count of how many remain in the house add them up |
| **(F) I can use directions (including maps and coordinates) to find a specific point** | 1. [Coordinate CHALLENGE](https://mathsframe.co.uk/en/resources/resource/153/coordinates--reasoning-about-position-and-shapes) 2. [Alien Attack!](https://mathsframe.co.uk/en/resources/resource/474/Multiplication-Coordinates-Alien-Attack) 3. [CODE BUILDER](https://www.mathplayground.com/code_builder.html) 4. [TREASURE HUNT](https://www.mathsisfun.com/games/direction-nsew-.html) 5. [BLOCK TURNS](https://www.mathplayground.com/logic_block_turns.html) | 1. Scroll down click play> Level 2> click on correct coordinates > press next (>>) 2. Play Game > Play > Select any Times Table > All Four Quadrants > Select numbers of coordinates of Alien Ship with correct answer (Tip: Remember – Along the corridor (x – axis) THEN up the stairs (y – axis) > Rocket Launch to stop aliens attacking Earth 3. Directions Game: click orange arrow > look at location of target and position of robot > create direction code by dragging arrows in order of moves to get the robot to the target > click RUN to see if your code is correct 4. Compass Points Game: Read directions and follow route from your emoji >click where you land > did you find the treasure? 5. Play (>) > Level 1 > Use the direction and angle to click and drag the rotation to the arrow so they face the same way > if you go wrong you can ‘undo’ moves |
| **(G) I can interpret information (including probability); gather, collate and display data in different ways** | 1. [Bar Chart Investigator](https://mathsframe.co.uk/en/resources/resource/51/bar-charts) 2. [DISPLAY CREATOR](https://www.mathsisfun.com/data/data-graph.php) 3. [JELLY BEAN TREE - PIE CHART](https://mrnussbaum.com/the-jellybean-tree-online-game) 4. [GO FISH - PICTURE GRAPH](http://toytheater.com/fishing/) | 1. Scroll down click play (>) > Select Level Three > Investigate data and answer question (pay attention to the scale used) < click next 2. Create your own bar, dot, pie, line or histogram! 3. Play > Click Switch Graph (for Pie) > drag jellybeans to correct colour square > Watch as you create a Pie Chart 4. Click the fish to catch them (avoiding the jelly fish!)> Catch all and answer questions about the Picture Graph you have created to get to next level |