Maths – Stage 2 - 3 Where did my Rock (Pokemon) go?

Learning Intention Learn how to make a map and plot co-ordinates. Consider scale, area and how to communicate computational mathematic instructions.	**Maths Stage 2 and 3 Mapping And Position** **Area MA2-10MG** Measures, records, compares and estimates areas using square centimetres and square metres **MA3-10MG** Selects and uses the appropriate unit to calculate areas, including areas of squares, rectangles and triangles **Position MA2-17MG** Uses simple maps and grids to represent position and follow routes, including using compass directions **Communicating MA3-17MG** Locates and describes position on maps using a grid-reference system **MA2-1WM** Uses appropriate terminology to describe, and symbols to represent, mathematical ideas **MA3-1WM** Describes and represents mathematical situations in a variety of ways using mathematical terminology and some conventions

Content: We can explore maths everyday as we walk, talk and play and see the beauty of maths everywhere! We can see maths in the outdoors by counting steps, finding numbers and shapes and mapping your path. The possibilities are endless! Pokemon go is a game that started in 2016 like an outdoor treasure hunt. Have you ever played it? We use maths when we are mapping - when we hide an object and use grid coordinates to locate an object using a map. Understanding how to make and use a map is a very important mathematical skill as is creating instructions to help a partner find the natural object (rock/stick) in the outdoors.	**Activities** **1A – Create natural objects and decorate them as treasure.** **1B – Create a Map of a local area using the grid supplied** **1C – Challenge friends to find your treasure using only grid coordinates.** **Extension 1E –Instead of using the map coordinates use Computational Mathematics instructions to challenge your friends**
Online links (optional) **For parents -** **http://fuse.education.vic.gov.au/Resource/LandingPage?ObjectId=1d763d45-432c-40db-93a6-2fc65837ddf6**	

WHERE DID MY ROCK GO?
Nature's treasure hunt

1. **Select a natural object such as a rock or a stick.**
2. **Decorate your rock/stick — be as creative as you like.**
3. **Create a map of the area you wish to hide your natural objects, e/g: your house, driveway, the fence, any paths or trees etc. on the grid below.**
4. **Over the top of your map you can see the horizontal grid lines and vertical grid lines.**
5. **Label each line with numbers across the top and letters down the side. This will help you plot where you have hidden your treasures.**
6. **Hide your natural objects and record separately which coordinates it is closest to.**
7. **Give a friend a map and a list of coordinates and ask them to find your hidden object. Re-hide it as many times as you like.**

Tips for successful painting, hiding and hunting

1. Be mindful of the environment as you walk around drawing your map and hiding your treasure.

2. Paint the rock/stick but do not add/attach anything else as there is no guarantee that it will stay attached and it could become litter, or a swallowing hazard for children or wildlife.

EXTENSION ACTIVITY (optional)

Hide your rock and use more complicated mathematical instructions than grid co-ordinates to help your partner find the object e.g.: Take 2 big steps then turn left 45 degrees, then take 5 small steps right....

Ask your parents if you can share your treasure hunt on their social media. Although Pokémon Go was all the rage a few years ago, and geocaching has its legions of fans, a more low-key, unplugged treasure-hunt trend has steadily grown in popularity around the globe. Many Facebook pages have been started with people painting, hiding and posting photos of nature's treasures for others to find, re-hide and repost.

Draw as many details on this map of a local area as possible- of house, yard, trees, paths etc. Use a pencil so you can correct any mistakes.

Write the numbers 1-18 along the top here

Write the letters a-x down this side

Hide your treasure somewhere outside. Tell a partner what the number and letter is of your hiding spot. E.g. look for my rock in G16.