

The Burnside Trail Smuggler's Adventure

Start : southern entrance to Balloch Wood just beyond Kirkmabreck Church

Distance of adventure : 3km / 2 miles

Time : 1 ½ hours

Tool kit : pen or pencil, pad of paper, camera / camera phone (optional), calculator (later at home), ruler / measuring tape (later at home)

Instructions : the various puzzles are laid out in order along the course of the Burnside Trail and further directions are provided in italics in between tasks to help you find your way.

Aims : find the possible looty location and solve the puzzles along the trail to discover more about the wood.

Directions part 1 : *Turn left at the entrance board into the woodland just beyond Kirkmabreck Church until you come to a circle of standing stones.*

1. Artistic Challenge No 1 – Write a haiku!

The poems on the standing stones were written by pupils at Creetown Primary School and are a type of poem from Japan called haiku. These are a really good type of poem to give a picture in words. Through these pictures emotions can be created. There are various rules to writing haiku: they must be very short, they are about nature and they are not about what *you* (so no 'I' or 'me' in the poems!). Do you think you can write a haiku? Use your notepad to write down lots of things you see as you walk through the woods, remembering to use all of your senses (sight, smell, sound, touch, taste) to describe them. At the end of your adventure use the poems on the standing stones as examples to help you to write a haiku – in a maximum of 10 words! One good technique is to place two different pictures in words beside each other, like

a tree stump has fallen over
red squirrels climb

Write your haiku here:

Directions part 2 : *Keep following the path along the edge of the wood along the stone wall on your left hand side. At a fork in the path continue along the left hand path – the other one going up into the wood is the path you will come back down later at the end of your adventure. Keep going around a bend in the path until you come to two simple chairs beside the path.*

2. Conservationist Challenge No 1 - What can you hear? : Sit down on one of the chairs and close your eyes. So often we are so busy that we don't hear the sounds of nature. What sounds of the woodland can you hear? Can you hear the river flowing? Can you hear birds? Can you hear leaves rustling?

Write a list of as many woodland sounds as you can hear:

Directions part 3 : *continue along the path which starts to climb gently through the wood until you discover the solution to -*

3. Explorer challenge No 1 - Find the Looty location! : The first possible spot for hiding loot is located at the **wally bee cheat**. Can you solve the anagram and find the spot where the treasure could be hidden?

Write solution here: _____

Is this a good spot? Write down two reasons why this is a good location and two reasons why it is a bad location:

Good location: 1.
 2.

Bad location: 1.
 2.

Directions Part 4 : *Again continue along the path until you find the solution to the next puzzle –*

4. Conservationist Challenge No 2 : Quiz question - what animal apart from cats have babies called kittens?

Answer: _____

Have you spotted any of these creatures in the woodland yet? Write down three features of this creature which would help you to recognise it if you saw it:

- _____
- _____
- _____

Seen any yet? Write down here at the end of your adventure whether you have seen any and how many? It is important to know how many of these creatures live in the wood because they are a threatened species and we need to protect them. Don't worry if you haven't seen any – you see more at some times of the year than others.

Yes i have seen ____ of this creature

No I haven't seen any

Directions Part 4 : *continue along the path which starts to climb up to the right with a small stream and a stone wall on your left until you come to Cardoon Bridge, marked by a wooden post. This is the turning point of the path before it returns down to the right or you continue over the bridge along the Pond Trail. First of all you need to complete*

5. Explorer Challenge No 2 – How Fast Does a Stream Flow? Cross the bridge and go down to your right hand side. You will see that the bridge is built over a big pipe which the stream flows through. What you are going to do is to try and work out how fast the stream is flowing by timing how long it takes for a twig to travel the length of the pipe.

Instructions:

- find a few twigs

- place them in the stream at the top end of the pipe
- time how long they take to travel to the bottom end of the pipe (if you don't have a watch or a stopwatch then you can count 'one second, two second' and that will be a good guess). Do this several times and use the most usual time
- return to the top of the bridge and measure how many foot lengths wide it is
- Record your answers below because you will need these later when you get home to calculate the speed of the river.

Time: _____

No of footlengths: _____

- When you get home calculate how fast the river is travelling using the following steps (you will need a calculator for this. Ask your parents or an older brother or sister for help if necessary) :
 1. Measure the length of your foot in centimetres using a ruler = _____cm
 2. Calculate the width of the bridge by multiplying (length of foot) x (no of footlengths) = _____ cm
 3. Divide the (width of the bridge)x (time) it took the twig to travel the length of the pipe. This gives you a speed of _____ cm per second.
 4. To turn this into kilometres per hour, multiply the above speed by 3600 and then divide this number by 100,000 = _____ km per hour.
- How does this compare with the speeds of the following? Circle the ones which the stream is faster than:
 - cheetah's maximum speed – 120 km per hour
 - car driving at maximum speed along main road – 96 km per hour
 - rabbit – 56 km per hour
 - human fast walking pace – 6 km per hour
 - tortoise – 1.5 km per hour

Directions Part 5 : To continue the Burnside Trail Smuggler's Adventure turn right back down into the forest, following the sign for the Larch Trail (otherwise to extend

the trail along the Pond Trail cross the Cardroon Bridge and follow instructions from there). The Larch Trail descends high above the river through the trees.

6. Conservationist Challenge No 3 – What Trees are These? : Look up and you will see that there is one main type of tree along this part of the trail – the larch tree. Which of the following is a picture of the needles of this tree? Place a tick below the relevant picture:



The old needles of this tree turn a distinctive orangey colour. Collect a few of these needles and stick them

HERE!

Directions Part 5 : *Continue descending along this path until you return to the fork in near the start of the trail. This is a great section of trail to run down, but watch out for people coming up the other way! At the fork turn left back towards the start, but before you finish...*

7. Artistic Challenge No 2 – Take a photo or draw a picture of the view : Fancy yourself as a bit of a landscape photographer or artist? At this point in the adventure there are great views out to sea over the top of the church. How useful would knowledge of this be for future smugglers! Draw a sketch of the view or take a photo and stick it

HERE!