FILEY

Numbers in Nature

What flowers can you find that match the Fibonacci numbers?

The Fibonacci Series

For this activity you need the dice and the magnifying glass to count petals.

The Fibonacci Series is formed by adding together the previous two numbers in the series to make the next number in the series, starting from 0 1. The series is 0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144...

What number is next?

Throw the dice and one of the following numbers will come up - 3, 5, 8, 13, 21, 34

1. Can you find a flower with this number of petals?
2. Can you find flowers with any of these numbers of petals?
3. Use the identification chart to name the flowers

The Fibonacci numbers are behind the shape of many natural things, for example the spiral shape of snail shells and the curve patterns in pine cones. See if you can find out how it works!

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Red Campion

Colours in Nature

How many flower colours can you find?
Use the tally counter to record the number of colours that you find.

10 colours - good
15 colours - excellent
20 colours - fantastic

Can you find these colours?
Red - Yellow - Blue - Purple - Orange - Pink - Violet - Brown - White

Did you find any green flowers?

The colours attract bees and other insects to collect nectar. While they are doing this they also collect pollen on their bodies and carry it to other flowers. This pollinates the flowers so they can produce seed.

Use the bee finger puppet to carry pollen from one flower to another by pushing the bee into the flower and picking up pollen. This is one way flowers are pollinated by insects so that seeds can be formed.

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Look out!

What can we see and which direction is Scarborough?

Take the compass and round View Point Card from your Tracker Pack.

Use the compass to line up the North on the card with the North shown by the needle on the compass.

The View Point Card will now show you where to look to see Filey or Scarborough or the direction you would need to travel to get to the places on the card.

The compass shows **North, South, East** and **West** and is divided into 360 degrees. For example South is 180 degrees.

What direction are you travelling in?

Is Scarborough to the North, South, East or West of where you are standing?

Use the binoculars to look for landmarks.

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What a view!

Use the **Viewfinder Card** to choose your favourite view. Share it with your family and tell them why you chose that view of the landscape. Let every member of the family choose a view and share it with everyone.

YORKSHIRE WOLDS WAY

FILEY

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Pebbles and fossils on the beach

Where did they come from?

The shore between the town, the sailing club and beyond is a good place to search for interesting pebbles and fossils.

Pebble Collecting

Collect at least 20 different pebbles from the beach and find a sandy area to sort them into groups. **Sort them by colour.**

Use your magnifying glass or nature viewer to look at them in more detail. Can you see what the pebbles are made of? They may be made of sandstone, chalk, limestone, granite or quartz.

Fossil Finds

Search for fossils among the pebbles. If you're lucky you may find bits of ammonites and shell-shaped fossils.

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Where did the pebbles come from and how did they get here?

These pebbles have come from the clay deposits in the cliffs. This is boulder clay and it was brought here by glaciers in the Ice Age. The pebbles have come from many places including Scotland, Scandinavia and the Lake District. They were carried by the ice and left behind when the glaciers melted 10,000 years ago.

The fossils are the remains of plants and animals that lived here over 150 million years ago when this area was covered by a shallow sea. Over millions of years the deposits at the bottom of the sea built up and turned into rock. As the climate changed, the sea dried up leaving the remains of sea creatures fossilised in the rocks.

Today the sea and weather is wearing away [eroding] the coastline creating cliffs, bays and headlands like Filey Brigg. Every year the cliffs are eroded more and new pebbles and fossils are deposited on the beach.

Take care on the beach and check the tide tables for high and low tide times. Tide tables are available from Filey Visitor Information Centre.

FILEY
Can You Name
the trees in Parish Wood?

How many trees can you name in Parish Wood?
You will need the tree identification chart for this activity.

There are several clues that can help you to identify a tree:

- **Bark**
- **Buds**
- **Flowers**
- **Leaves**

The easiest and most practical is by the leaf shape.

Oak leaf

The Leaf Game
Take six leaves and place them on a convenient surface. One person at a time describes a leaf without touching it and the others have to guess which one was described.

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Lords and Ladies

A Wealth of Wildlife

The woodland habitat of Parish Wood contains a wide range of trees and provides homes for many plants and animals.

Explore the many paths in the woodland and you will discover a wealth of wildlife.

- **Look out for wild flowers and orchids**
- **Listen out for bird song**
- **Feel the different textures of the tree bark**
- **Smell the scent of the woodland plants**
- **See if you can spot any butterflies in the sheltered glades**

This woodland is only 15 years old. It will be many years before the trees are mature. An oak tree will be 25 years old before it produces acorns.

Stay awhile and enjoy the beauty of Parish Wood.

'What is life if full of care. We have no time to stand and stare'

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Watching birds

At the Old Tip Nature Reserve

Send someone a postcard

Bird Watching

You will need binoculars, a blank postcard and the bird identification chart.

This is a wonderful place to see birds. You will need to be quiet, still and patient. There are some seats nearby to sit on while you watch.

'Wish you were here!' Postcard Fun

- On the front of the postcard draw a picture of one of the birds on the information panel or choose one you can see in the reserve
- On the back write the address of where you want to send the card
- Now write a message from the bird you have chosen describing where it lives, what it eats and any other information you would like to add to your message and then sign it (for example 'Sally Seagull')

Why not put a stamp on your card and post it to a friend. They might be surprised!

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Weevil

The Camouflage Insect Game
Some birds feed on insects in the grass but they are not always easy to find.

Take it in turns to be the game leader. **The game leader should take the coloured insects from the bag and spread them out on a patch of rough grass measuring about 5m by 5m.**

On the game leader's instruction, one person at a time will run to the insect area and bring back the first insect they see.

Play the game until everyone has returned with at least two insects and pause the game to talk about the results.

Which colours have been collected?
Which colours have been collected the most? Why is this?

You will probably have collected the insects which were easiest to see first.

Which colours are best for camouflaging an insect in grass?

Don't forget to collect any remaining insects and put them back in the bag!

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YORKSHIRE WOLDS WAY

FILEY Seaside Scramble Fascinating Facts

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As you walk along the coastline new and spectacular views unfold, but don't forget to keep looking back or you may miss the views towards Filey and Bempton Cliffs beyond!

Information panels along the route reveal how this landscape was formed, how the Romans used Carr Naze as a signal station and what sort of wildlife to look out for as you explore.

1: Ancient River Beds

The soft boulder clay covering Carr Naze was left behind when the ice retreated at the end of the last Ice Age, around 10,000 years ago. Underneath the clay is a hard bedrock, which has resisted the action of the waves and today forms the Brigg which protects Filey Bay. Between these two you can see layers of pebbles and gravels which were laid down by ancient rivers before the Ice Age began.

If you walk out onto The Brigg, look out for strange patterns on the rocks. These are the fossilised burrows of sea creatures that lived here up to 140 million years ago!

2: The Meeting of Two Ways

This is where two National Trails meet. The Cleveland Way heads north from this point and covers 110 miles along the North Yorkshire Coast and across the North York Moors to Helmsley. The Yorkshire Wolds Way heads south, covering 79 miles across the rolling countryside and valleys of the Yorkshire Wolds, ending at Hessle, close to the Humber Bridge.

3: Rocket Pole

Look out for a strange white pole in Totem Pole Field. This is the Rocket Pole used by the Filey Volunteer Life Saving Rocket Company to practice rescuing stricken sailors from boats out at sea. One member of the team climbed to the top of the pole as if a sailor clinging to the mast of his sinking ship. Other members of the team fired a rescue line to him to bring him ashore. The Company used this technique to rescue sailors from 1872 until the 1960s.

Members of Filey Life Saving Rocket Company

Photograph courtesy of Crimlisk Fisher Archive.

4: St Oswald's Church

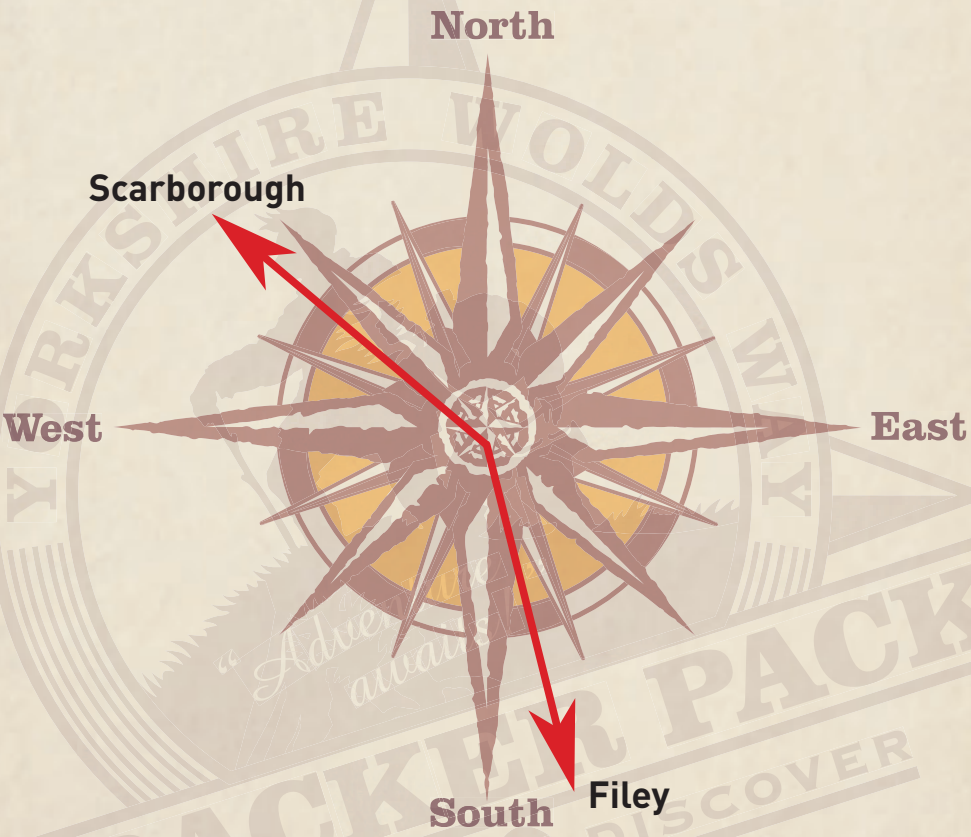
Take a close look at the weather vane on top of the church. The 12th century Norman church is dedicated to St Oswald, the patron saint of Northumbrian fishermen (with Northumbrian meaning 'North of the Humber').

The Yorkshire Wolds Way is one of 15 National Trails in England and Wales. It runs for 79 miles between Hessle and Filey along the outstanding countryside of the Yorkshire Wolds.

Produced by: ***Yorkshire Wolds Way Project*** NATIONAL TRAILS with funding from:

NATURAL ENGLAND
EAST RIDING OF YORKSHIRE COUNCIL
North Yorkshire County Council

FILEY
View Point Card



The sun rises in the east and sets in the west