

## RSPB Pulborough Brooks

**Names:**

**Date:**

Today we will be investigating the **biodiversity** of different habitats at RSPB Pulborough Brooks and how these habitats are managed for wildlife and for people.

### Freshwater sampling

We will be collecting information about a freshwater ditch

**Can you think of 2 different **abiotic** factors we could record to help us investigate this habitat?**

1.

2.

**Now can you think of 2 different **biotic** factors that we could record?**

1.

2.







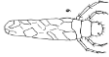


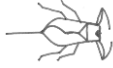










**What type of equipment could we use to collect this information?**

**What method will you use to calculate the biotic index?**

## Freshwater sampling

<b>Management regimes</b>	<b>For wildlife</b>	
	<b>For people</b>	
<b>Biotic factors</b>	<b>Plant species</b>	
	<b>Biotic index (see next page)</b>	
<b>Abiotic factors</b>	<b>Light level (lux)</b>	
	<b>Water temperature (°C)</b>	
	<b>Water pH</b>	
<b>Observations &amp; comments</b>		

## Freshwater sampling – Biotic index

Animal	Biotic score	Present?	Animal	Biotic score	Present?
<b>Animals with 6 legs</b>					
 Greater water boatman	5		 Lesser water boatman	5	
 Mayfly nymph	10		 Damselfly nymph	6	
 Dragonfly nymph	8		 Water beetle larvae	5	
 Caddisfly larvae	7		 Water beetle	5	
 Pond skater	5		 Water scorpion	5	
<b>Animals with more than 6 legs</b>					
 Freshwater shrimp	6		 Water louse	3	
 Water mite	4		 Water flea	5	
<b>Animals with no legs</b>					
 Bloodworm	2		 Flatworm	4	
 Leech	2		 Phantom midge larvae	5	
<b>Animals with a shell</b>					
 Rams-horn snail	3		 Pond snail	3	

**Total score:**

**Number of different species present:**

**Biotic index (total score ÷ number of different species present):**

## Vegetation sampling

We will be collecting information about a woodland habitat.

**Can you think of 2 different abiotic factors we could record to help us investigate this habitat?**

- 1.
- 2.

**Now can you think of 2 different biotic factors that we could record?**

- 1.
- 2.

**What type of equipment could we use to collect this information?**

## Vegetation sampling

**Habitat:**

**Time:**

**Weather:**

<b>Management regimes</b>	<b>For wildlife</b>	
	<b>For people</b>	
<b>Abiotic factors</b>	<b>Air temperature (°C)</b>	
	<b>Ground temperature (°C)</b>	
	<b>Light (0 dark – 2000 light)</b>	
	<b>Soil moisture (1 dry - 10 wet)</b>	
	<b>Soil pH (8 alkaline – 3.5 acidic)</b>	
<b>Biotic factors</b>	<b>Plant species (minimum 4)</b>	
	<b>Invertebrates recorded</b>	
	<b>Evidence of wildlife</b>	