#### TROOPERS HILL FUN LEARNING TRAILS

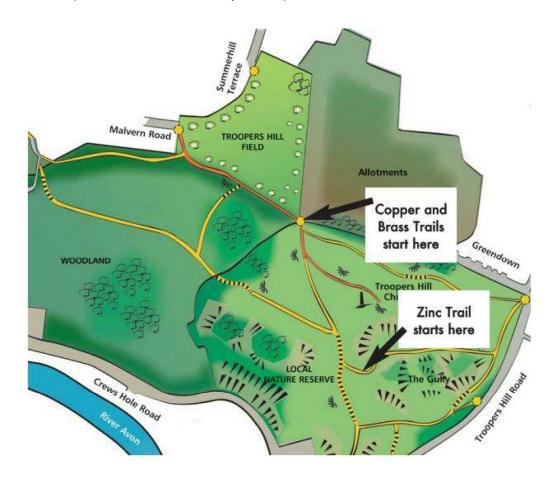


Friends of Troopers hill have created three new marked trails for schools and families with primary school age children. The trails are designed to help you find out more about the wonderful wildlife on this very special Hill.

There are several ways to access these trails, depending on age and the amount of challenge you are seeking.

The Copper and Brass Trails begin at the entrance from Troopers Hill Field on to the Hill, near the standing stone. You can access Troopers Hill Field from Malvern Road or Summerhill Terrace.

The Zinc Trail begins further down the Hill. Take the main path from the Field and then head downhill from the first bench, the start is on the path to the left after the waymarker post.



- All trails are described in a clockwise direction
- Use small symbols on plates to show you where the species occur
- Have names of metals associated with Troopers Hill in the past. The plates look like those metals (copper, brass, zinc).
- Have different shapes note the shape for the one you are following: copper = circles; brass = square; zinc = ellipse
- Have fixed symbols which are not always obvious children will need to be encouraged to look under, over, in-between and especially behind them
- Show steps as black and yellow stripes on the maps

We recommend good footwear to avoid slips and trips, and suitable clothing for a windy hill.

Please note - there are no toilets at Troopers Hill.

# How to Get to Troopers Hill Local Nature Reserve



www.troopers-hill.org.uk

Troopers Hill is owned and managed by Bristol City Council, there is free unrestricted access all day everyday.

#### Location

Troopers Hill is in St George, east Bristol, between the A431 Air Balloon Road and Crews Hole Road. These roads are linked by Troopers Hill Road, from which there are four pedestrian entrances on to the site. The lowest is close to the junction with Crews Hole Rd and gives easy access to or from the River Avon Trail, but please take care crossing the roads. The nearest entrance to Air Balloon Road is at the corner of Greendown.

Alternative entrances are from the east end of Malvern Rd or from Summerhill Terrace. Access from these entrances is across the grassy area known as Troopers Hill Field.

There is another footpath to the site through Crews Hole Woodland from Lamb Hill.

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#### Accessibility

The entrance at Malvern Road provides the easiest access for those with limited mobility and from here there is a wheelchair accessible path to the top of the hill so that everyone can enjoy the wonderful views. Some of the slopes on this path may mean that some wheelchair users need assistance. The remainder of the paths on the hill are unsurfaced and there are some sections of steep steps. Beware of steep cliff edges.

#### Visiting on Foot or by Bike

The St Phillips Greenway and the River Avon Trail provide a walking or cycling route from the centre of Bristol. We would prefer it if you would leave your bike secured to one of the fences at the entrances and explore the site on foot. If you choose to take your bike on the site please be considerate of other visitors and keep to the paths. Please do not ride on the grassland or unsurfaced paths when the ground is wet.

#### By Bus

There are frequent bus services seven days a week to nearby Air Balloon Road from the centre of Bristol or Bath. This bus route is one of Bristol's 'Showcase' bus routes.

Unfortunately if you arrive by train in Bristol you will first need to walk or take a short bus ride to the Centre or Old Market to catch the appropriate bus.

By Bus from Bristol.

Bus services:

44 (Centre – Kingswood via Hanham Common)

45 (Centre – Longwell Green via Hanham & Cadbury Heath)

332/632 (Bristol – Bath via Hanham, Longwell Green, Bitton, Kelston).

Ask for "Marling Road". Get off the bus at the first stop after the Pied Horse public house (on the right, travelling away from Bristol). Cross the road. Turn off the main road into Summerhill Terrace, where there is a gate into Troopers Hill Field. Cross or walk around the field to the corner diagonally opposite, where there is an entrance into Troopers Hill Local Nature Reserve.

By Bus from Hanham and Bath

Bus services:

44 (Kingswood – Centre via Hanham Common)

45 (Longwell Green – Centre via Cadbury Heath & Hanham)

332/632 (Bath – Bristol via Kelston, Bitton, Longwell Green, Hanham). Ask for "Summerhill Road". Get off the bus opposite the Air Balloon public house, (on the right, travelling towards Bristol). Facing towards Bristol, walk on and turn left into Summerhill Terrace. Continue straight on to a kissing gate into Troopers Hill Field. Cross or walk around the field to the corner diagonally opposite, where there is an entrance into Troopers Hill Local Nature Reserve

www.travelinesw.com www.nextbusbristol.co.uk

#### By Car

There is no car park at Troopers Hill. Limited car parking is available on the adjacent residential roads. If you visit by car please park with consideration for local residents. Take care to lock your car and remove valuables from sight.

If you have a satellite navigation system the nearest postcode for Troopers Hill Rd entrances is BS5 8BL. The Malvern Road entrance to the Field is at BS5 8JA. If you are using the Malvern Rd entrance, please consider parking on Diamond Rd to leave space on Malvern Rd for residents and less able visitors.

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For more details, email friends@troopers-hill.org.uk call Susan on 947 5037 or visit our website at www.troopers-hill.org.uk

Please respect this wonderful space, clean up after your dog, take your litter home and (to protect the grassland) please do not use disposable barbecues.

## **COPPER TRAIL - FACTSHEET**



Here are some of the trees, mammals and creatures of the night that you can find on the Copper Trail. The middle column shows you the symbol to look for on the Trail, together with some information about them.

a I am a rodent but humans like me. edermaus Wikimedia Commons I eat nuts, seeds and bury acorns squirrel to eat in the winter. I am great at climbing trees but damage them. 2 **E5** I appear about dusk and fly by echolocation. In one night I can eat bat thousands of insects. I help to pollinate plants and spread seeds. I am a night-time bird of prey. I have big eyes and great eyesight o Mo so I can hunt small mammals and insects. I am said to be wise. **C6** I am very common and my seeds sycamore are often called helicopters. I lose my leaves in winter. I will grow P Milner almost anywhere. В6 5 I am a mammal related to the dog. I leave a strong smell to mark my ě territory. I eat mostly anything and am starting to live in the city. **B3** I am a larger mammal. I am herbivorous (vegetarian). deer Males are called 'buck' and females are called 'doe'. sweet chestnut I bear edible fruits in autumn and lose my leaves in winter. My fruits are roasted and used in stuffing, especially at Christmas.















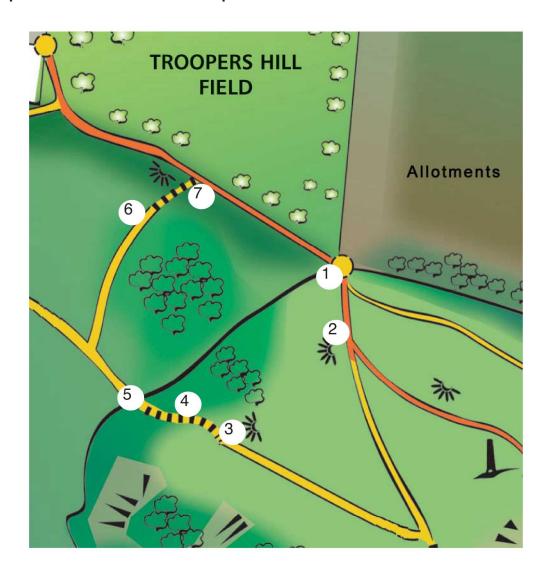




# **COPPER TRAIL - DISCOVERY CHALLENGE**



Which symbols for trees, mammals and creatures of the night can you find at the points marked on the map? Write their names below.

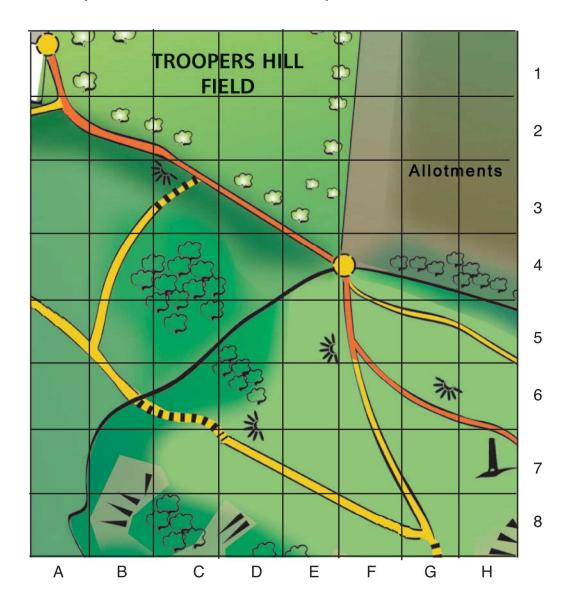


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# **COPPER TRAIL - GRID CHALLENGE**



Find seven trees, mammals or creatures of the night using the grid references. They are all on, or close to the path. Write their names below.

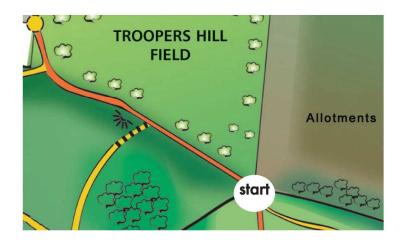


F4	
E5	
C7	
C6	
B6	
B3	
СЗ	

## COPPER TRAIL - COMPASS CHALLENGE



Can you find seven metal symbols for trees, mammals and creatures of the night just by following directions with a compass?





#### 1. Find and stand at the start point.

CLUE: I am a rodent but humans like me. I eat nuts, seeds and bury acorns to eat in the winter. Iam great at climbing trees but can damage them. What am I? .............

#### 2. Continue S. to the bench on the right

3. Continue S. to the waymarker on the right. Continue N.W. to the top of some steps. CLUE: I am a bird of prey and a creature of the night. I have a wide face and am said to be wise. I have big eyes and great eyesight so I can hunt small mammals and insects. What am I? ............

#### 4. Continue N.W. a few paces.

CLUE: I am very common and my seeds are often called helicopters. I lose my leaves in winter. I will grow almost anywhere and I can be a nuisance. What am I? ............

## 5. Continue NW to the foot of the steps and sniff the air.

CLUE: I am a mammal and a distant relation to the dog. I leave a strong smell to mark my territory. I eat mostly anything and am starting to live in the city. What am I? ...........

6. Continue N.W. until the branch in the path. Choose the path to the N. Find a clearing with a cut down tree covered in fungi.

CLUE: I am a larger mammal. I am herbivorous (vegetarian). Males are called 'buck' and females are called 'doe'. What am I? ........

### 7. Continue N.E. up the steps.

CLUE: I bear edible fruits in autumn and lose my leaves in winter. My fruits are roasted in their skins and used in stuffing, especially at Christmas. What am I? ...........

To return to the start, turn S.E. along the track at the top of the steps.

# **COPPER TRAIL - WORDSEARCH**



Here are the names of some of the trees, mammals and creatures of the night that you can find on Copper Trail. How many can you find?

K H L R Y T Ν L В U W X T T G W В W D L T Y K S L N  $\mathbf{E}$ A L O U T Y A R Е R  $\mathbf{E}$ Y Ν C Ν R E H 0 W K  $\mathbf{z}$ В T R E I F 0 L S A V S C Ι N K W L M C D K I E U W L 0 R 0 J  $\mathbf{z}$ H K R N A R R O M C S S S X 0 F  $\mathbf{T}$  $\mathbf{E}$ E

bat
deer
fox
owl
squirrel
sweet chestnut
sycamore



















## **BRASS TRAIL - FACTSHEET**



Here are some of the plants, birds and a reptile that you can find on the Brass Trail. The middle column shows you the symbol to look for on the Trail, together with some information.

I am a small, olive brown warbler. chiff chaff I flit through trees and shrubs and wag my tail. I eat insects on trees, and fly out to snap them up. I like short grass so I can feed on woodpecker the ground. I love to eat ants. green I breed in the holes I peck in dead wood. F3 Look for me in the summer, close to scarlet pimpernel the ground. I only open my small petals when the sun is shining. Some people think I'm a weed. G6 I turn the Hill pinkish purple in late heather summer. I like dry, acidic soils. Bees and insects love the nectar I hide in my bell-shaped flowers. St John's Wort **D6** I am found in open rather than shady places. Some people think I Glyn Baker am a medicinal plant. My pollen attracts bees and other insects. C<sub>6</sub> I am a reptile (cold-blooded) and i have scaly skin. I love to bask in lizard the sun. I can move very quickly. I like to eat small insects such as flies, grasshoppers and spiders. **C5** I am a warbler. You can see me in whitethroat spring, summer and autumn but I fly to Africa in the winter. I eat insects, berries and fruit.















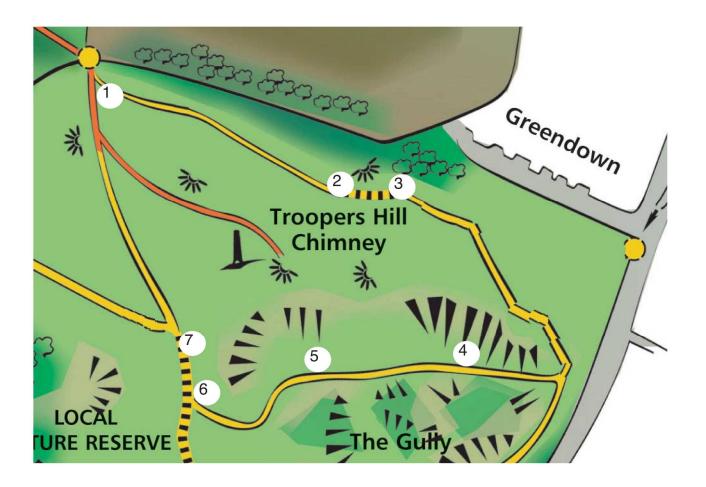






# **BRASS TRAIL - DISCOVERY CHALLENGE**

Which symbols for mainly plants and birds can you find at the points marked on the map? Write their names below.

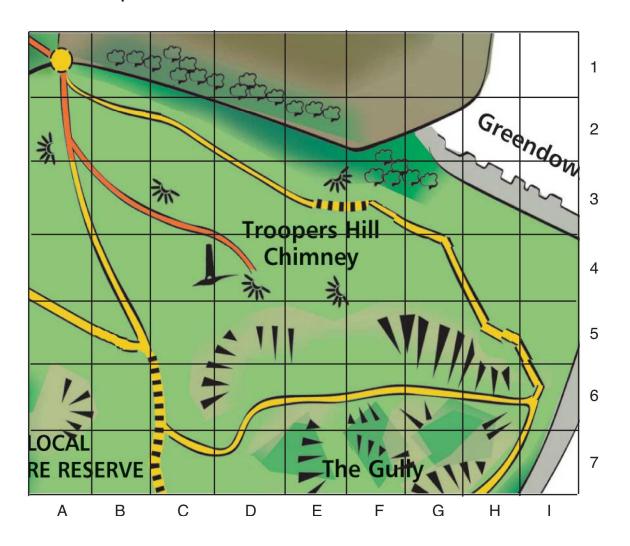


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# **BRASS TRAIL - GRID CHALLENGE**



Find plants, birds and a reptile using the grid references. They are all on, or close to the path. Write their names below.

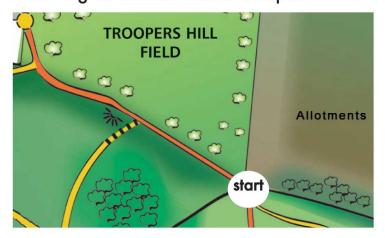


B2	
E3	
F3	
G6	
D6	
C6	
C5	

## **BRASS TRAIL - COMPASS CHALLENGE**



Can you find seven metal symbols for plants, birds and a reptile just by following directions with a compass?





1. Find and stand at the start point.

- 3. Continue more E. than S. to the bottom of the steps.

CLUE: Look for me in the summer, close to the ground. I only open my small petals when the sun is shining. Some people think I'm a weed. What am I? ...........

4. Continue S.E. towards the big oak tree. Pass the oak tree on your right to meet a main path. Turn W. on the path and enter the Gully. Turn N.W. on the faint path that gently slopes upwards. Where the path bends N. carry straight on N.W. a short distance to a tree stump in a flat grassy open area.

CLUE: I turn the Hill pinkish purple in late summer. I like dry, acidic soils. Bees and insects love the nectar I hide in my bell-shaped flowers. What am I? ............

- 5. Return back S.E. to the path running along the bottom of the Gully. Turn W. along the path and continue until you see a big rocky basin on your right and the chimney above it. CLUE: I am found in open rather than shady places. Some people think I am a medicinal plant. My pollen attracts bees and other insects. What am I? ............
- 6. Continue W. along the path that wiggles up out of the end of the Gully. Then turn S. Follow the path as it turns to the W. Stop when the path goes down 1 small step.

  CLUE: I am a reptile and have scaly skin. I love to bask in the sun. I can move quickly. I like to eat small insects such as flies, grasshoppers and spiders. What am I? ........
- 7. Continue N. up the steps to the waymarker.

CLUE: I am a warbler. You can see me in spring, summer and autumn but I fly to Africa in the winter. I eat insects, berries and fruit. What am I? ..........

# **BRASS TRAIL - WORDSEARCH**



Here are the names of some of the plants, birds and a reptile that you can find on the Brass Trail. How many can you find?

J X S S Y K G Y Y T P 0 P T G Z M F T J V P F L V E C J H T E R D W F E A H L R Y X H P A 0 V I G N R D E M C I N H H S B W D 0 A K Y H M T Q C N L E T T C C F L P I E S F S J K E S L T E U K E P E F W R P A C P N K R P N I H I 0 B R G Z R R D 0 N H U A 0 H X G I Y C K C 0 I E F A 0 T S 0 Z D C J R A K L L 0 C W G N Z T T 0 T L 0 D T A

> chiff chaff fungi heather lizard

scarlet pimpernel st johns wort whitethroat



















# ZINC TRAIL - FACTSHEET



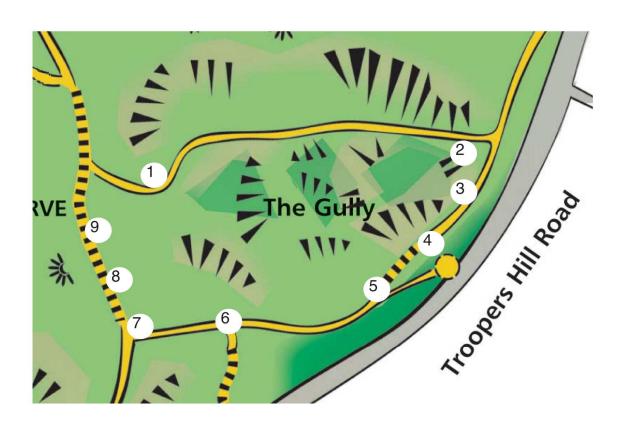
Here are some of the creepy, poisonous or sweet things that you can find on the Zinc Trail. The middle column shows you the symbol to look for on the Trail, together with some information about it.

slow worm	Dave Green	I am a reptile sometimes called a legless lizard. I eat slugs, worms, spiders and insects. I like the sun, but also like to hide under things.
spider	H2 YnQ	I am most obvious in autumn. I hide in tunnels I spin and I also make webs to trap my food. I eat butterflies, wasps and flies.
peacock	Tirus Tscharnike	I pretend to have big eyes to scare predators such as mice.I like full sun and take the nectar provided by plants like honeysuckle.
brimstone	G4 G4	Like other butterflies around here, I am good at camouflage. I feed on nectar, especially from purple flowers such as heather.
comma	Susan A-C	I am tatty around the edges and get my name from a white mark under my wing like a comma. I need nettles to thrive.
honeysuckle	6 D5 no line	I am sometimes known as wood- bine. I smell very sweet and attract all sorts of flying insects with my delicious nectar.
grasshopper	7 B5 B5	My antenna are shorter than my body. I make sounds by rubbing my legs against my wings. I like to eat grasses and leaves.
ladybird	8 B5 B5	I am a beetle. My wings are bright red, orange or yellow with black spots. I can be a pest but I help by eating (aphids) greenfly.
fungi	9 A4 A4	My name is fly agaric and I am posionous, like many of my fellow fungi. I like shady, cool places. I am eaten by squirrels and rodents.

# ZINC TRAIL - DISCOVERY CHALLENGE



Which symbols for creepy, poisonous or sweet things can you find at the points marked on the map? Write their names below.

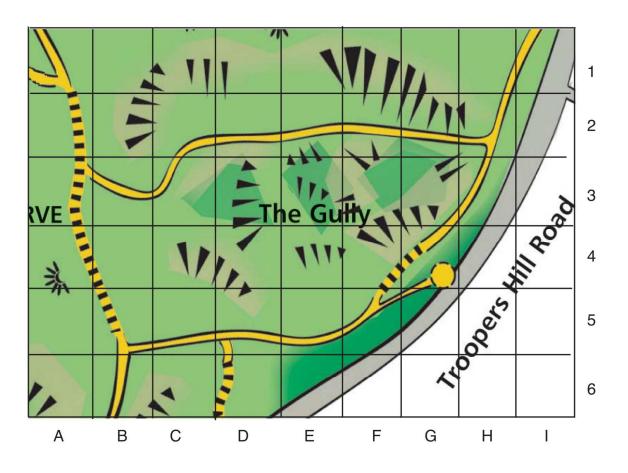


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# ZINC TRAIL - GRID CHALLENGE



Find nine creepy, poisonous or sweet things using the grid references. They are all on, or close to the path. Write their names below.

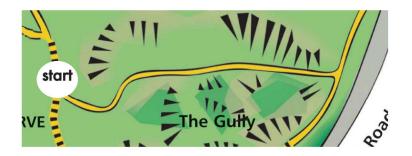


СЗ	
H2	
НЗ	
G4	
F5	
D5	
B5	
B5	
A4	

## ZINC TRAIL - COMPASS CHALLENGE



Can you find nine metal symbols for creepy, poisonous or sweet thing just by following directions with a compass?





1. Find and stand at the start point. Go S.E. along the path a short distance.

CLUE: I am a reptile sometimes called a legless lizard. I eat slugs, worms, spiders and insects. I like the sun, but also like to hide under things. What am I? ..............

2. Turn N. following the path down into the Gully and continue E. along the path as it runs along the bottom of the Gully. Towards the end of the Gully look for some rocks with bright yellowy green lichen on them. Pause here.

CLUE: I am most obvious in autumn. I hide in tunnels I spin and I also make webs to trap my food. I eat butterflies, wasps and flies. What am I? ......

3. Continue E. to a path T junction. Turn S. Contine to the rusty Badger Bridge.

CLUE: I pretend to have big eyes to scare predators such as mice. I like full sun and take the nectar provided by plants like honeysuckle. What am I? ...........

4. Continue S.W. a short distance.

CLUE: Like other butterflies around here, I am good at camouflage. I feed on nectar, especially from purple flowers such as heather. What am I? ...........

5. Continue S.W. about the same distance

CLUE: I am tatty around the edges and get my name from a white mark under my wing like a comma. I need nettles to thrive. What am I? ..........

6. Continue W. a little way.

CLUE: I am sometimes known as woodbine. I smell very sweet and attract all sorts of flying insects with my delicious nectar. What am I? ........

7. Continue W. until you meet a path at the bottom of some steps.

CLUE: My antenna are shorter than my body. I make sounds by rubbing my legs against my wings. I like to eat grasses and leaves. What am I? ...........

8. Continue N. W. until halfway up the steps.

CLUE: I am a beetle. My wings are bright red, orange or yellow with black spots. I can be a pest but I help by eating (aphids) greenfly. What am I? ..........

9. Continue N. up steps near where you started.

CLUE: My name is fly agaric and I am posionous, like many of my fellow fungi. I like shady, cool places. I am eaten by squirrels and rodents. What am I? ..........

# ZINC TRAIL - WORDSEARCH



Here are the names of some of the creepy, poisonous or sweet things that you can find on Zinc Trail. How many can you find?

G G S L K F R E F S Z J C U V L M S R R B Y Y K G R V X M R A Q Z S L I W C Y C I W Y D S M A S H U M L W Y L V S J P S J W H E Q A W H M I X Y 0 D T P D D 0 A J 0 M D Y R F L P Y E M P B N D F E D N T S M A E I E T E R G 0 Z Q I 0 R R X X L N U H I V A M K G H D P C D L A U

> brimstone comma grasshopper honeysuckle

ladybird lizard peacock slow worm spider

















