

EXPLORE

MISSIONS



COMPLETED ON



Make a compass
Mission Card 1



A metal item such as a paper clip or a small needle becomes a compass needle when it is magnetized and can be suspended to allow free movement that is not affected by wind or other forces.

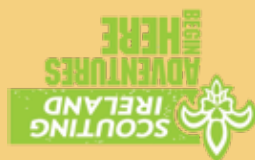
To magnetize the needle use a magnet and stroke the needle about 20 - 30 times in the same direction.

Find a small pool of water away from the wind and carefully place your needle either on a small piece of grass or leaf. The surface tension of the water will prevent the needle from sinking and it will turn easily clockwise or counter-clockwise to orient itself north-south on the grass or leaf.

EXPLORE Missions

Print off sheet.
Cut out mission sheet.
Accordion fold along fold lines
Then fold in half to credit card size





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Make an ogham stick
Mission Card 2

Make an ogham stick

Ogham is an ancient form of writing used in Celtic times. Across our landscapes ancient monuments such as standing stones, ring forts and dolmens sometimes display pieces of ogham writing carved into the stone.

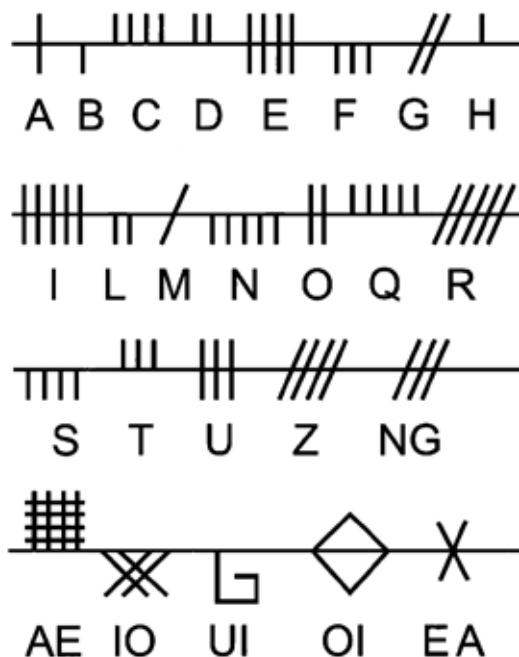
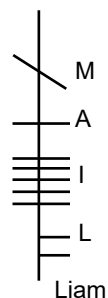
The central line represents the edge of the stone and cuts are placed to the right or left of this line to represent letters.

As you walk along the trail collect some small sticks. These can be cut to short lengths and trimmed at their ends. Now slice a small bit of the

bark away from the stick and you have your writing surface.

Draw a line along the stick and then create your name using ogham writing. A small hole can be drilled through the top of the stick and it can be hung around your neck.

names are written from the bottom up



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Explore by bike
Mission Card 3

Get on your bike and start exploring.

There are many cycle lanes along way marked trails and are suitably signposted. Many offer easy cycling on level pathways.

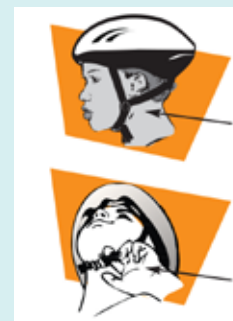
You can travel on the waterway network tow paths rail cycle paths and some way marked trails.

When exploring on a bike, one advantage is that you can travel further and faster. In travelling faster however you also miss some of the beauty that is around you - so stop often along the trail and absorb the world around you and visit a lot of interesting things nearby.



As you travel along the cycle trails you will be away from immediate help therefore make sure you bike is in working order, tyres are pumped up and brakes are working properly.

Can you fix a puncture? it's a useful skill to know.



- ☐ Make sure you have a cycle helmet
- ☐ Don't have any loose clothing that might get caught in the mechanical elements of your bicycle.
- ☐ Have proper footwear for cycling (not flip flops and loose fitting shoes or boots)
- ☐ It's always a good idea to have some other protection gear in case of rain or cool winds.
- ☐ A reflective jacket or belt is also good practice on all roads and trails.

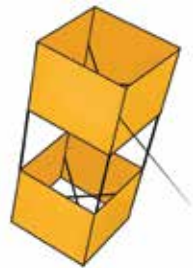


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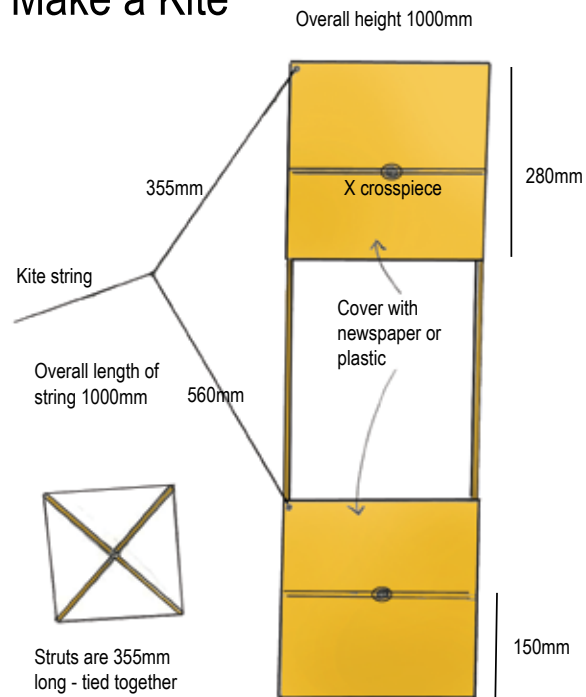


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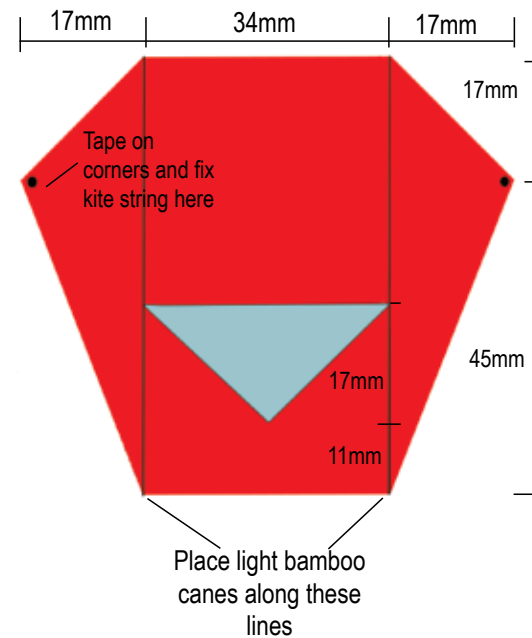
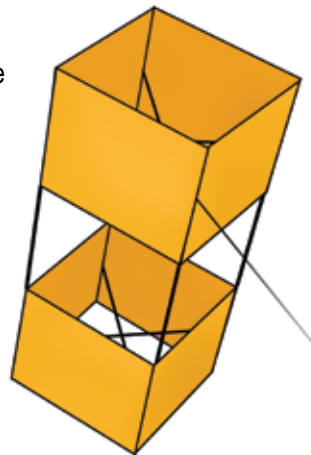


Fly a kite
Mission Card 4

Make a Kite



Box kite



Sled kite

The sled kite is a simple kite to make using some light bamboo canes and a lightweight rubbish bag. The bamboo canes are fixed to the plastic using duct tape.

It is also necessary to re-enforce the string holders using another piece of duct tape to prevent tearing. The inner triangle is cut out from the kite shape to aid stability.

Cut a length of string 3 meters long and attach it to each of the fixing holes. At the midway point attach your kite line.



Missions

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Make a video
Mission Card 5



The Mission
You and your team are to produce a series of nature movies - like a BBC David Attenborough documentary - exploring and showing the diversity of nature along the trail.

Tips

- Turn your phone on its side when shooting.
- Move in to the subject and fill the frame.
- Don't zoom -just get closer
- Watch your fingers - you don't want them in the shoot.
- Don't talk while filming - your phone sound microphone will be open and recorded on your video.
- Plan, Plan, Plan - plan each shot before you take it. Practice the move and panning within the shoot
- Make a small storyboard before you start shooting show you know what shoots are required to make your video.

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Catch a fish
Mission Card 6



Brown Trout



Bream



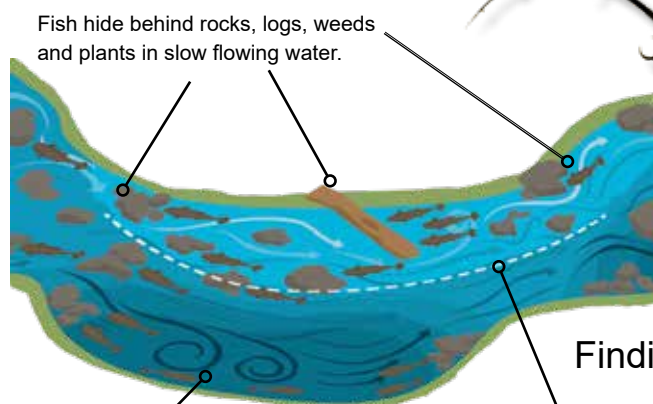
Roach



Take a picture of your catch.
The landing and returning process needs to be completed as quickly as possible so as not to damage or place the fish under unnecessary stress.



Baiting a hook with maggot for a wabbler rig



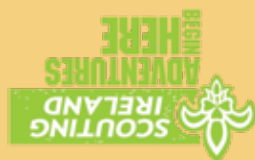
Finding fish



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Find some treasure
Mission Card 7



This is the type of treasure box you are looking for.



A GPS Compass device



Geocaching app for a phone



Geocaching

Geocaching is an outdoor adventure where players use a free mobile app or a GPS device to find cleverly hidden treasure containers called geocaches.

You will need a GPS device or download a geocaching app to discovery hides all over the countryside, under park benches, in the forest and probably a short walk from where you are right now.

Once you have the app on a phone you seek treasure in a particular area and the phone will direct you to the general location then you have to hunt around that location for the treasure cache.



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Find an animal track

Mission Card 8



Deer



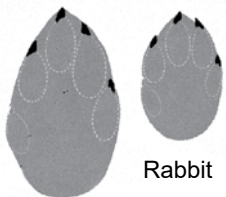
Rabbit



Fox



Badger



Squirrel



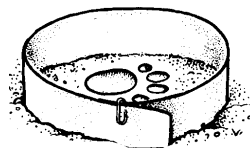
Hedgehog



Rat



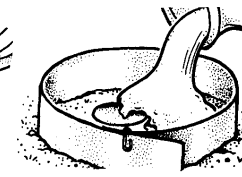
Plaster cast of an animal track



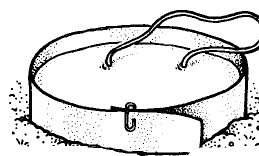
Grease some card with Vaseline and place around the track.



Mix up Plaster of Paris per instructions.



Pour the plaster into the mould and allow to set.



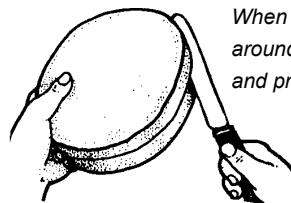
Place a piece of string, for hanging later, in the plaster before, it sets.



Lift up the cast and turn over. This is a negative image and you'll need to make another casting to make a positive one



Grease the top of the casting and place new card around the cast to create a mould.

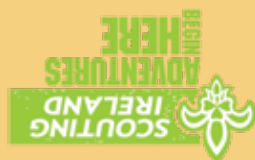


When the cast is set, work around edges with a knife and prise apart with care

Missions

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Lay a trail
Mission Card 9

Tracking



Turn right



Follow this trail



Turn left



Message hidden four paces from here



Follow this trail

Message hidden 12 paces from here



Do not follow this trail



Follow this trail



Gone home



Group has split up four have taken this trail and two the other one



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COMPLETED ON



Create some land art - small and clever that intrigues



EXPLORE



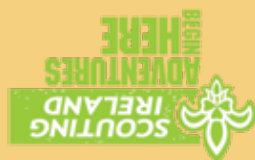
Create some land art
Mission Card 10



Missions

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card size





COMPLETED ON



Scavenger Hunt
Mission Card 11

Scavenger Hunt

Find something

- ☐ • to climb up and see something far away.
- ☐ • to crawl under
- ☐ • to roll across the ground
- ☐ • that is heavy
- ☐ • that is squishy
- ☐ • to jump over
- ☐ • to balance on your head
- ☐ • that is rough
- ☐ • that is alive
- ☐ • that is red
- ☐ • that floats
- ☐ • an animal track
- ☐ • that is fuzzy
- ☐ • to balance walk across
- ☐ • that smells
- ☐ • the smallest insect

Find ..

- ☐ • a feather
- ☐ • a place to lie down and look at the sky
- ☐ • your reflection
- ☐ • a bird singing



Missions

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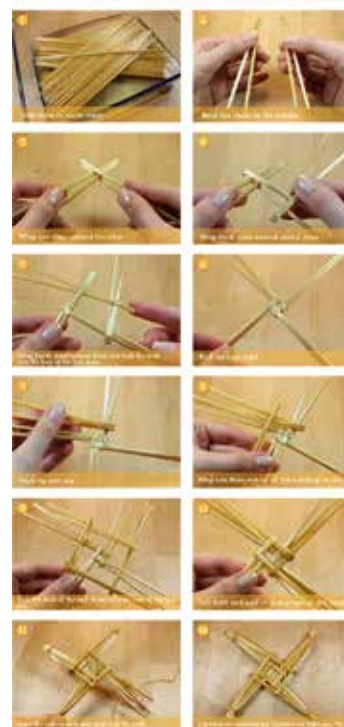


Make a Brigid's cross
Mission Card 12

Make a Brigid's Cross



Other craft projects are detailed on www.colorful-crafts.com



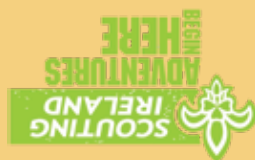
Detailed tutorial on www.colorful-crafts.com



Missions

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Find the depth
Mission Card 13

Make the depth of a river or canal

This mission is best done near a bridge as you can use the bridge to cross to each bank and to drop your weight easily to get readings.

You will need a ball of string and a weight - a big nut is good. Tie the nut to the end of your string. Then with a permanent marker place marks at set distance so you have a measuring string.



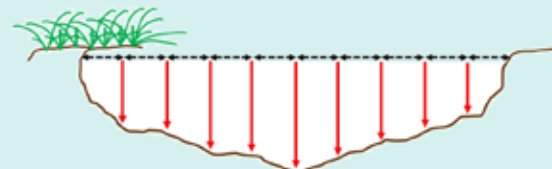
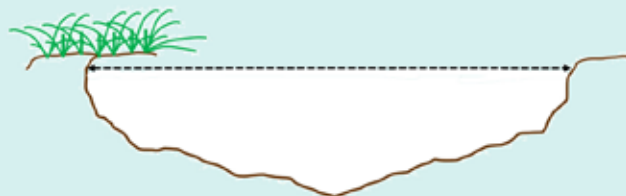
To create a map of the bottom of the canal or river you must first measure the width of the river.

Throw the string to a friend on the other side of the river. Pull it tight and then count the marks across the river to get the distance.

Take depth readings by dropping the weighted string into the water as set distances and note how deep the water is by counting the marks on the string.



You will need to take measurements of the depth at equal distances - say every 60cm. Do this by dropping the line into the water slowly and let it drop into the water until it sinks to the bottom, pull the string taut and note the number of marks on the string as it descends the water.



Draw a straight line on a piece of paper and mark off set distances. Then plot the depths at each point and join the ends of each depth line to reveal the profile of the river bottom



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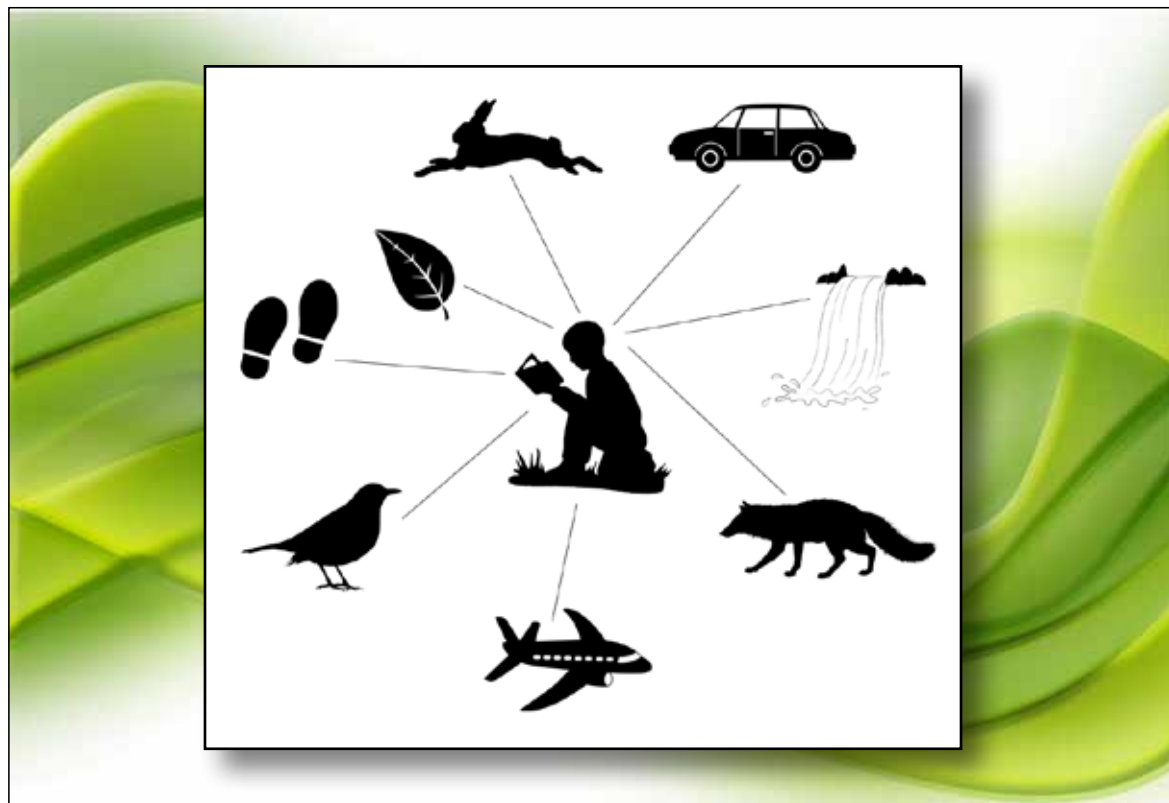


COMPLETED ON



Make a sound map Mission Card 14

Make a Sound Map



Take some time - about 5-10 minutes to sit down, close your eyes and listen to the world around you.

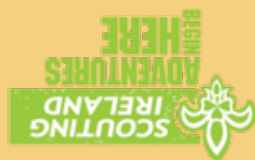
Take a piece of paper and mark an X in the middle - this represents you. Now listen...if you hear a bee buzzing nearby place a mark on the paper that shows its location to you and how far it is away from you. Perhaps there is a squirrel running in a tree you can hear, birds singing, water flowing, the rustle of leaves and even the distant sounds of cars, or trains.

For example, a few wavy lines could represent a gust of wind, or a musical note could indicate a singing bird. Making simple marks keeps the focus on listening rather than on drawing.

if a number of people are doing this exercise together sit so-em distance apart and when you have completed your sound map it can be compared to others.

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COMPLETED ON



Make a colour palette
Mission Card 15

In nature there are many colours that create the landscape. Big and large trees, wild flowers and grasses, colourful fruit and seeds. To create your personal colour palette you will need a sticky label (name tag size). Use the label to place small specks of colour from the area of your exploration or along the trail. You will notice that there are many different colours and that there really are '40 shades of green'



You can also create journey sticks and boards. Find a stick and make some small bindings with wool or string. Place objects on your stick as you walk along. You can also put some double sided tape on a piece of card and stick items to it

Create a colour palette

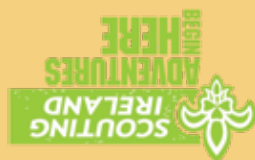
When creating a colour palette or a journey stick only pick a very small sample or items that are already on the ground. Don't pick wild flowers or damage the environment for others.



Missions

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COMPLETED ON



Make a Pop Pop boat
Mission Card 16

Make a pop pop steam boat



You will need an empty drink can, two straws, a milk or drink container and some 'Blu-tack. You will also need a scissors, pen and ruler, and a tea light candle.

Watch the video for full instructions on how to build it - easy.

The container will be cut to make a simple boat.

You will use then use the metal from the drinks can and the straws to create a small steam boiler. The blu tack will seal all the joints.

The candle is then placed in the back of the boat and steam is created in the small boiler that power your boat.

Have fun!!



Scan the QR code with a tablet or phone to see video.



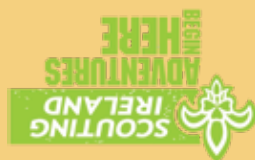
Search youtube

How to Make a Simple Pop Pop Boat



Print off sheet.
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COMPLETED ON



Climb a tree

Mission Card 17

Climb a tree

Find a tree that you can climb. Climb up and discover the landscape from a high position.

Some things to keep in mind.

Firstly, don't do anything stupid, such as climb a tree that you can't get down from, or one that is too weak to hold you or climb a tree when it is wet.

Pick the tree carefully. Look for a tree that has a strong trunk, and thick branches.

Keep an eye out for any dead or decaying branches that could break.

Choose trees with branch positions that welcome climbing – the branches should be relatively close together with no need for big stretches and near the trunk where they are stronger.

Take it slowly, examining the tree as you move upwards. Always test a new hand or foothold before placing all their weight onto it by pressing down on the area to ensure it's sturdy enough.

Don't look down while you are climbing – be aware of all the branches around you. Looking up is also a great way to keep an eye on the route, and determine which way would



be the most suitable to continue climbing upwards.

Always use the 3 point rule - only move one limb at a time with three limbs secure as footholds and handholds - never jump for a branch.

When coming down move slowly, one limb at a time. Have a friend point out the route or suggest the next branch to reach for.



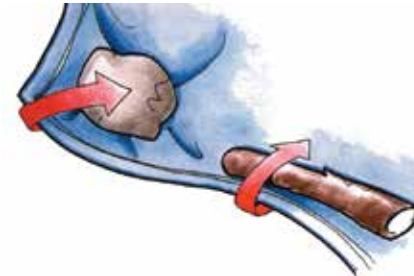
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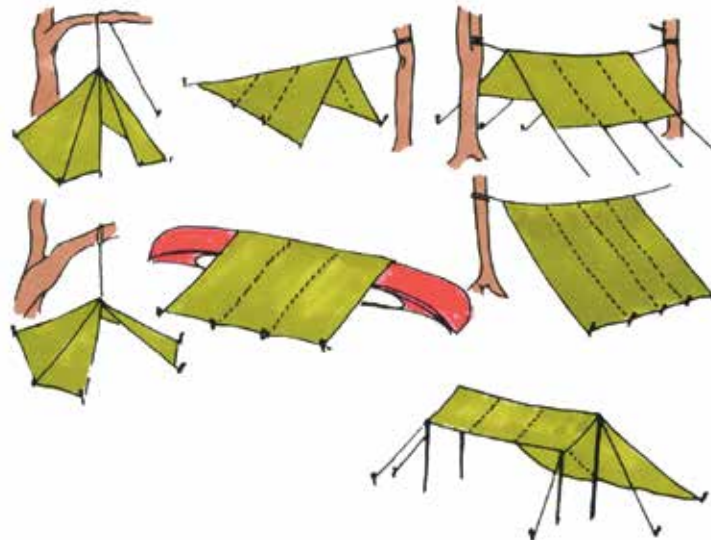


Make a bivy shelter Mission Card 18

Make a bivy shelter



If you are using plastic sheeting, wrap a small rock or piece of wood at the guy point and tie your cord around it. This will give you something to grip and will prevent the plastic ripping or your guy slipping off under tension.



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COMPLETED ON



Find North Mission Card 19



Using your watch as a compass

You can use your watch to tell the direction. This is done by using the hour hand and the 12 o'clock mark on your watch.

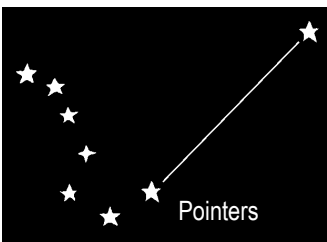
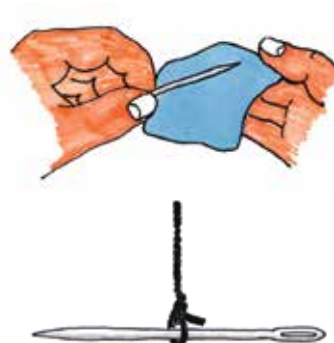
To discover where South is - point the hour hand towards the sun. Then divide the angle between the hour hand and the 12 o'clock mark on your watch.

This will give you the North - South line, the direction towards the sun is South.

Once you know where one of the directional points lies it is easy to discover the others.

Shadow method

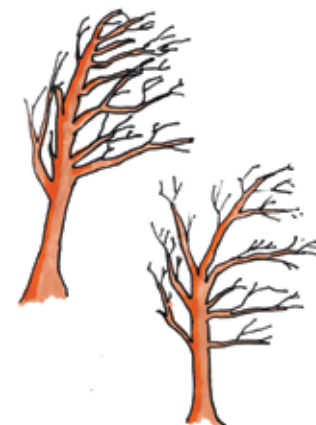
Place a stick in a upright position in level ground (90 degrees to the ground) and mark the tip of the shadow cast. Wait at least 15 minutes and again mark the tip of the shadow. A line can be drawn between the two tips, is the East - West line. If you scribe a line at right angles to this line you have North and South



The location of North can be determined from the stars using the Pole Star. The 'Plough' Constellation is visible all year round as it moves around the Pole Star.



A magnetised needle can be used to find North. Magnetise it by rubbing it with a silk or nylon cloth in the same direction.



Almost every area has what is called a prevailing wind -that is a wind that blows longest and strongest from a particular direction. Confirm your findings by observing several trees in the same vicinity.

Mosses and lichens will tend to grow more on the North side of a tree trunk, rather than on the Southern sun facing side.

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Signal with a mirror Mission Card 20



Signal to a friend with a mirror or CD

You can use a CD or a mirror as a signal device using the reflective rays of the sun.

First use your mirror to find the sun reflected on the ground and see how it moves around.

To redirect the sun rays over a distance, so it can be seen by others - move the mirror so it catches the light and then direct

it through your extended fingers towards its target. If you are using a CD this is done by looking through the hole on the CD.

Morse code is a series of dots and dashes that can be used to send a message. A dot can be a quick flash (a second) and a dash a longer flash (2 seconds). This is done by moving the mirror slightly away from the viewer.

Morse Code

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

1	● — — — —	6	— ● ● ● ●
2	● ● — — —	7	— ● ● ● ●
3	● ● ● — —	8	— — ● ● ●
4	● ● ● ● —	9	— — — ● ●
5	● ● ● ● ●	0	— — — — —

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