

## Researching an urban working life

The urban job I am researching is: \_\_\_\_\_.

To do this job well, you usually have to do these five things:

- 1.
- 2.
- 3.
- 4.
- 5.

Is it possible to do this job in a rural location?  
Why? Why not?

Why do people live in urban areas?  
(this should be based on research as well as your own  
experience/opinions)

What are the advantages of living in an urban area?

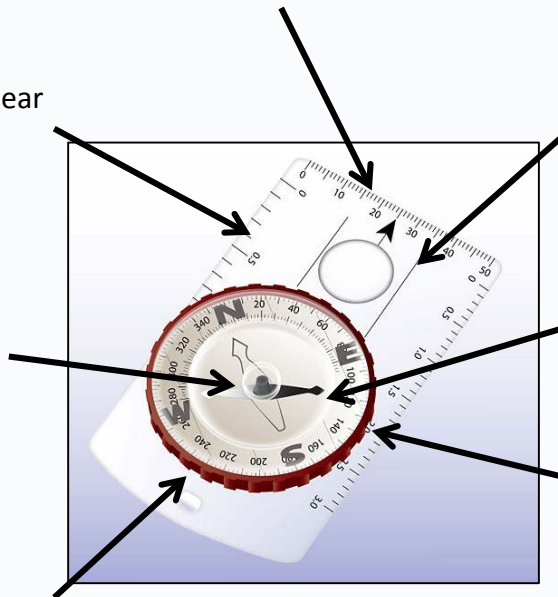
What are the disadvantages?

## How to use a compass

The **direction of travel arrow** is the arrow in the baseplate pointing away from the compass.

The **baseplate** is the clear plastic base of the compass.

The **orienting arrow** is the non-magnetic arrow within the compass housing.



The **orienting lines** are the lines within the compass housing that run parallel to the orienting arrow.

The **magnetic needle** is the needle spinning within the compass housing.

The **compass housing** is the clear, plastic circle that houses the magnetized compass needle.

The **degree dial** is the twistable dial surrounding the compass housing that displays all 360 degrees of the circle.

**Make sure you hold the compass correctly** by placing the compass flat on your palm and your palm in front of your chest. This is the proper compass stance, when travelling. If you're consulting a map, place the map on a flat surface and place the compass on the map to get a more accurate reading.

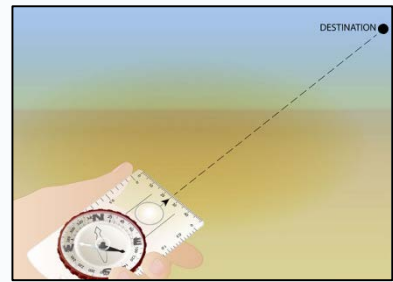


**Find out where you're facing** by looking at the magnetic needle. It should swing off to one side or another, unless you're facing North.

Turn the degree dial until the orienting arrow lines up with the magnetic arrow, pointing them both North, and then find the general direction you're facing by looking at the direction of travel arrow. If the direction of travel arrow is now between the N and the E, say, you're facing Northeast. To take a more accurate reading, look closely at the degree markers on the compass. If it intersects at 23, you're facing 23 degrees Northeast.



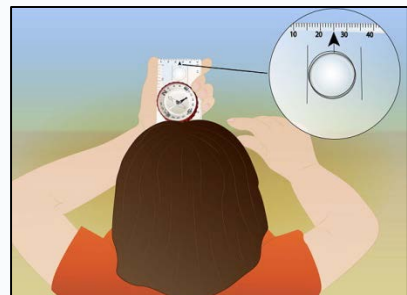
**To check your bearings to find out which direction you're going in** move the compass until the direction of travel arrow is pointing in the direction you've been travelling and will continue travelling. Unless you're heading north, the magnetic needle will spin off to one side. Twist the degree dial until the orienting arrow lines up with the north end of the magnetic needle. Once they're lined up, this will tell you where your direction of travel arrow is pointing.



**To continue moving in this direction,** hold the compass in the proper stance, turn your body until the north end of the magnetic needle once again lines up with the orienting needle, and follow the direction of travel arrow. Check your compass as often as you need to, but be sure not to accidentally twist the degree dial from its current position.

**If you are lost,** place your map on a horizontal surface, then place the compass on the map so that the orienting arrow points to true north on the map. If you know your current position on the map, slide your compass around so that its edge passes through your current position, but its orienting arrow continues to point north. Draw a line along the compass edge and through your current position. If you maintain this bearing, your path from your current position will be along the line you just drew on your map.

**To take a bearing from the map** and find out which direction you need to travel to get somewhere, place the map on a horizontal surface and place your compass on the map. Using the edge of the compass as a ruler, place it so that it creates a line between your current position and where you want to go. Rotate the degree dial until the orienting arrow points to true north on the map. This will also line up the compass's orienting lines with the map's north-south lines.

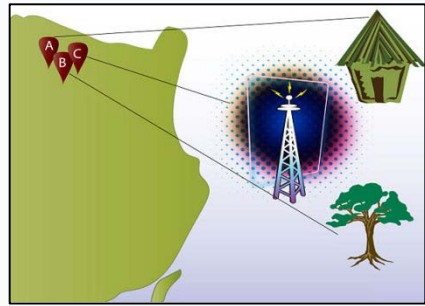


Once the degree dial is in place, put the map away. Hold the compass horizontally in front of you with the direction of travel arrow pointing away from you. Use this arrow to guide you to your destination. Turn your body until the north end of the magnetic needle is lined up with the orienting needle and keep it like this as you move forward. Look where you are going!

## Map work challenge

**Choose three landmarks that you can both see and find them on your map.**

One of the most difficult things you can do with a compass, but one of the most important, is finding out where you are when you don't know your exact location on the map. By locating landmarks you can see on your map, ideally as widely spread around your field of view as possible, you can get yourself re-oriented.



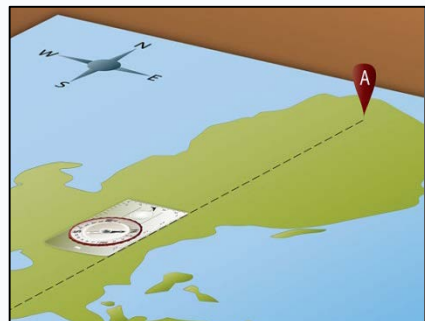
**Aim the direction of travel arrow at the first landmark.**

Unless the landmark is north of you, the magnetic needle will spin off to one side. Twist the degree dial until the orienting arrow lines up with the north end of the magnetic needle. Once they are aligned, this will tell you where your direction of travel arrow is pointing. Correct for declination, depending on your area.



**Transpose the direction of the landmark onto your map.**

Place your map on a horizontal surface and then place the compass on the map so that the orienting arrow points to true north on the map. Then slide your compass around so that its edge passes through the landmark on the map, while the orienting arrow continues to point north.



**Triangulate your position.** Draw a line along the compass' edge and through your approximate position. This is the first of three lines you will draw to find your position by forming a triangle with the other two landmarks. Repeat this process for the other two landmarks. When you're done, you will have three lines that form a triangle on your map. Your position is inside this triangle, the size of which depends on the accuracy of your bearings. More accurate bearings reduce the size of the triangle and, with lots of practice, you may get the lines to intersect at one point.

