

Activity workbook:

# Transport



## Transport

# 01

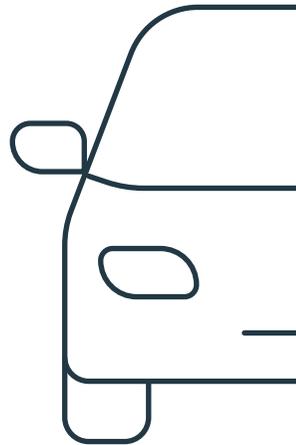
# Road, rail, air & sea

**Transport is the term used to describe the different ways people move themselves or items we need from one place to another.**

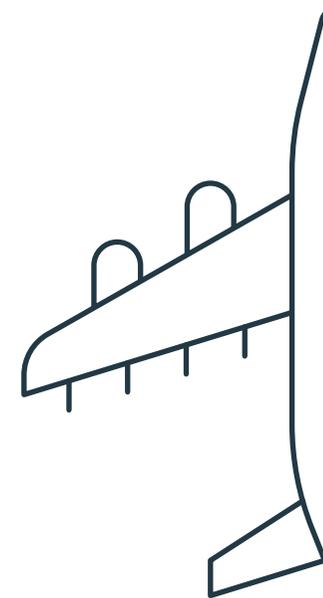
If we do not need to travel too far, most people who can, may choose to walk. But if we are going further, we might need some help, we can use different types of transport including road, rail, air or sea. People need transport to do things every day like go to work, visit family and friends or go on exciting trips and vacations.

We also use transport to get the things we need to important places like shops, hospitals and our own home. Transport is always getting better and there are lots of ways it is changing to be kinder to the environment, including the use of different types of energy. Why not think about all of the different types of transport you have used before – how many can you count?

We have started drawing some examples of transport you might have used before; can you draw the missing half? Once you have completed the drawing, write the mode of transport underneath and choose a colour for each one!

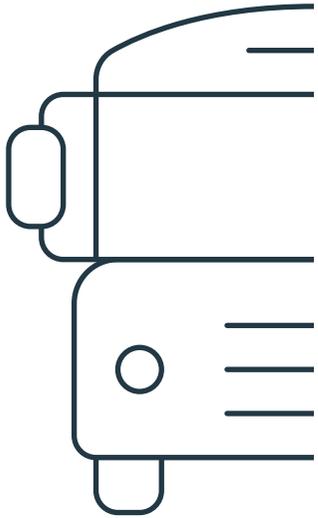


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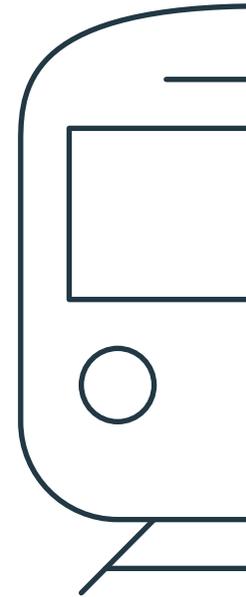
Transport: 01 Road, rail, air & sea



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## Transport

# 02

# Word search

Many people travel by rail for both short and long journeys. Some train rides are short and may take you to a different part of the city, they can be called inter-city or subways.

Others can take you long distances, to different cities or even countries! Some trains are used for carrying things other than passengers, these are known as freight trains.

We have hidden lots of words related to trains, can you find them all?

PASSENGER	ENGINE
STATION	TUNNEL
CONDUCTOR	BAGGAGE
CARRIAGE	CARGO
FREIGHT	BRIDGE
SUBWAY	SIGNAL
RAILROAD	METRO
TRACKS	

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

# 03 Colour in



## Transport

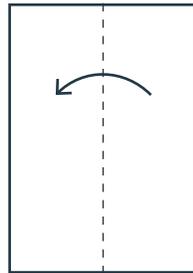
# 04

# By air or sea

When travelling long distances to different cities or countries most people do this by air or sea, mainly airplane or boat. First, we will explore travelling by air. An airplane is any type of aircraft that moves through the air with the help of an engine and wings. The science of flight is called aerodynamics, the wings of an airplane are shaped in a way that allows air to flow over them and lift them off the ground. Modern airplanes can carry lots of people or cargo to different places all over the world.

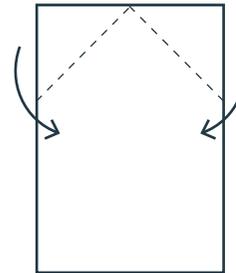
You will find instructions for just one example of a paper plane to help you experiment with air travel. There are lots of different designs that each cause the plane to fly differently. Once you have tried this one why not get creative and design something completely different to compare. Why not get everyone at home to make one and see who can fly the furthest?

1



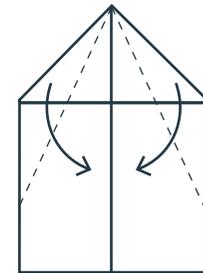
Start with a piece of A4 or Letter sized paper. Make a line in the centre by folding the paper in half, then lay it out flat.

2



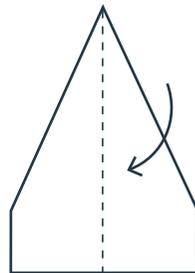
Fold in two of the corners so they meet at the centre.

3



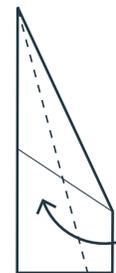
Fold the top edges in again so they meet at the centre.

4



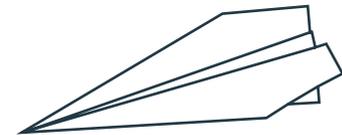
Turn the paper over and then fold it in half in the middle.

5



Fold down the wings on each side so they meet with the bottom of the plane.

6



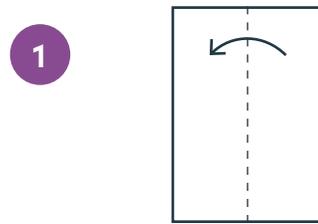
Your plane is ready to fly!  
How far can you make it go?

## Transport

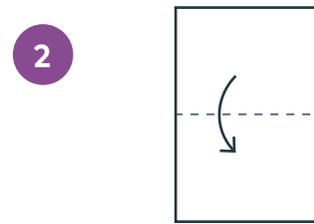
# 04 By air or sea

A boat is a watercraft used for fun or for carrying a few people. Larger boats that carry lots of people or goods for long distances are called ships. Boats come in different sizes and types and use different types of power to make them move through the water. Small boats move using human muscles pushing oars or paddles, others are powered using wind through sails, and ships rely on engines to power them.

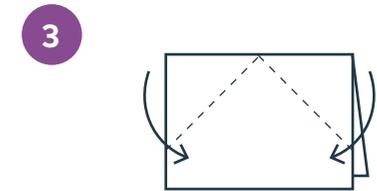
You will find instructions to build and design your own boat, they are so much fun to make. With just a few minutes and a sheet of paper, you can fold a little origami boat that actually floats on water. You can play with them in the bath or in the sink. Or you can keep them dry and play with them on the floor, so they last longer, a blue surface or towel can make a great ocean!



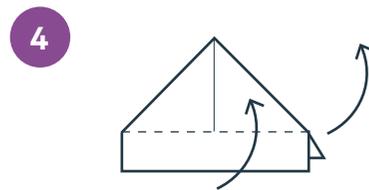
1 Start with a piece of A4 or Letter sized paper. Fold the paper in half and then open flat.



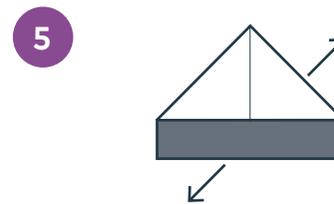
2 Fold in half downwards.



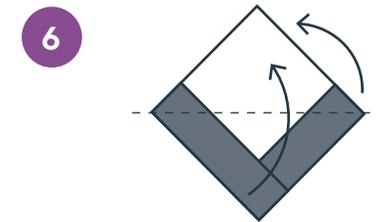
3 Bring the corners in to the centre line.



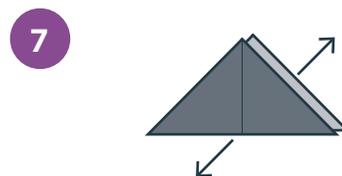
4 Fold the upper layer upwards and do the same at the back.



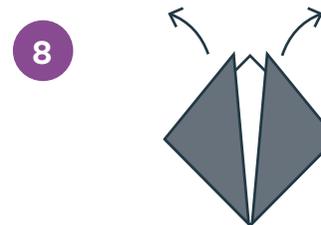
5 Pull the sides out and flatten.



6 Fold the front layer up to the top and then do the same at the back.



7 Pull the sides apart and then flatten.



8 Carefully pull the top parts of the model out, making the boat shape.



9 Flatten to crease all the folds and open out slightly to form the finished boat!

## Transport

# 05 Balloon car

A car is the mode of transport that most of us use on a regular basis. A car uses wheels to move and can carry a small number of people and goods. A driver uses pedals to make the car either go or stop. It uses a steering wheel to turn the car right or left. The car is powered by an engine that uses gasoline or electricity. Trucks and buses are similar but are bigger, carrying more people or goods. These modes of transport have changed the lives of many people making it easier to travel to work, move goods or to see friends and family.

In this next activity, we would like you to build your own car using wind energy to make it move. You will only need a few simple materials: something for the base (like cardboard), straws, skewers, tape, and a balloon.

1



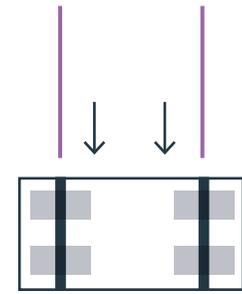
Measure and cut a 3 by 6-inch rectangle out of cardboard. Cut two 3-inch pieces from a straw. These will hold the wheels and axles in place.

2



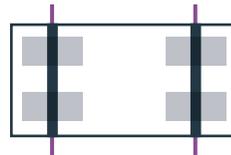
Use tape to secure the straws to the cardboard. Make sure that the straws are straight.

3



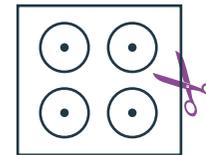
Cut two 4-inch pieces from a wooden skewer and then slide the skewers into the straws.

4



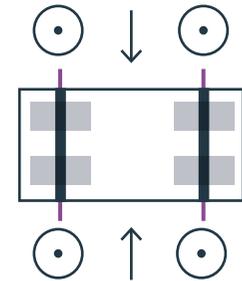
You should have about 1/2 inch sticking out of each end so that the wheels can be attached.

5



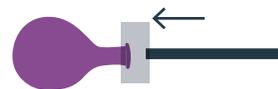
Make the wheels by cutting four equal sized circles out of cardboard. Make a hole in the center of each wheel using a skewer or pencil.

6



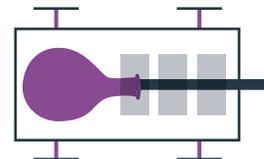
Slide the wheels onto the ends of the skewers. Keep a gap between the wheel and the cardboard or they may not turn.

7



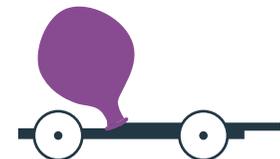
Slide a straw into a balloon and tape it in place. Make sure that there are no gaps as this will let air in.

8



Turn the car so that it is standing on its wheels. Place the straw and balloon on top. Make sure the straw is hanging over the ends then tape it in place.

9



Blow up the balloon through the straw then place the car on a flat surface. Let go of the straw and watch the car go!