LITTLE EXPLORERS LET'S GO



X-RAY MACHINE MORE THAN 30 FLAPS!



CABIN CREW

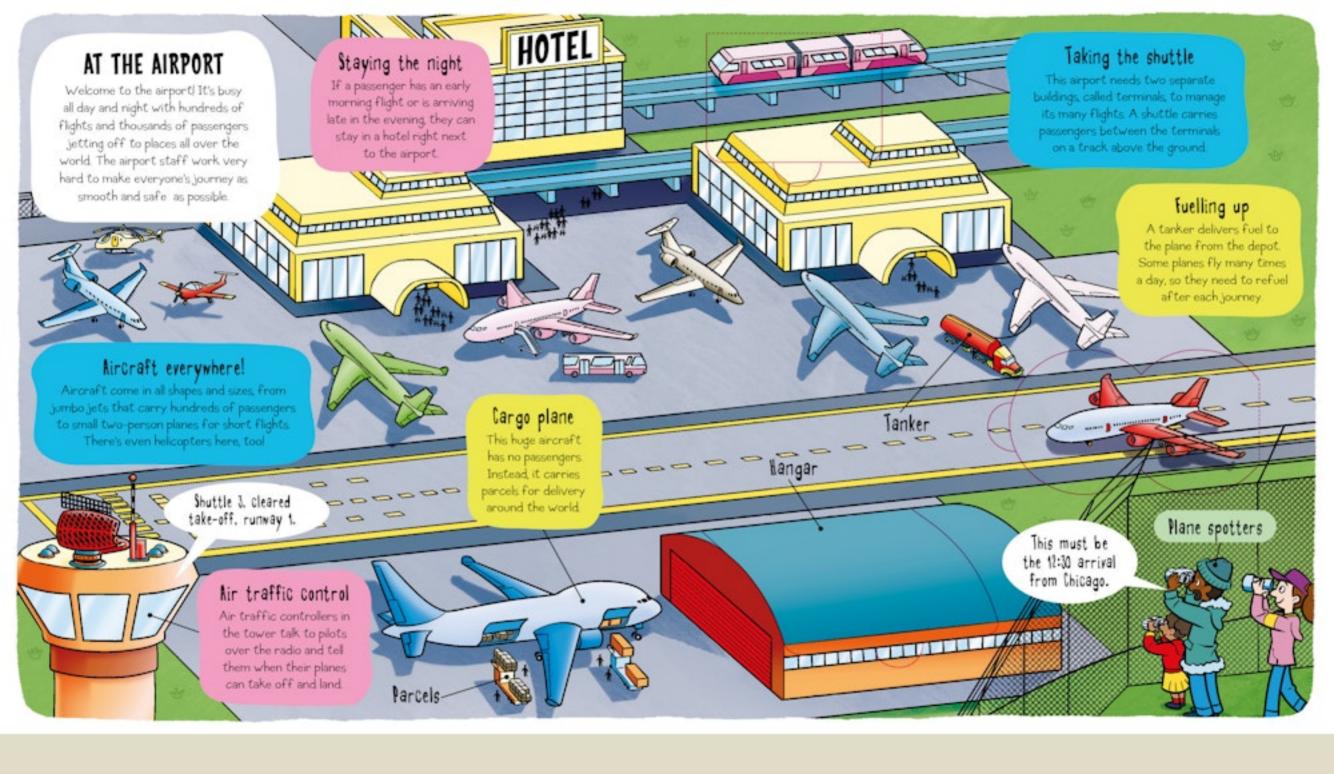


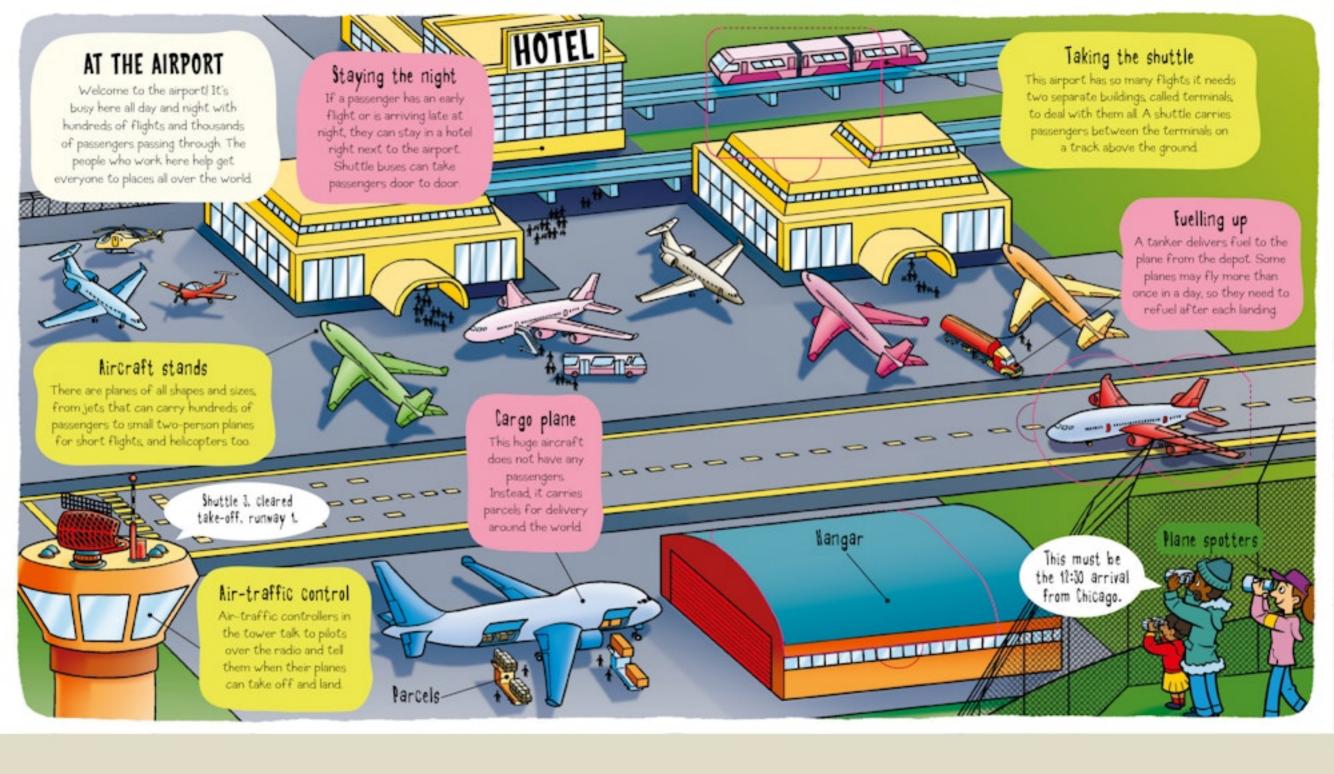
AIR TRAFFIC CONTROL















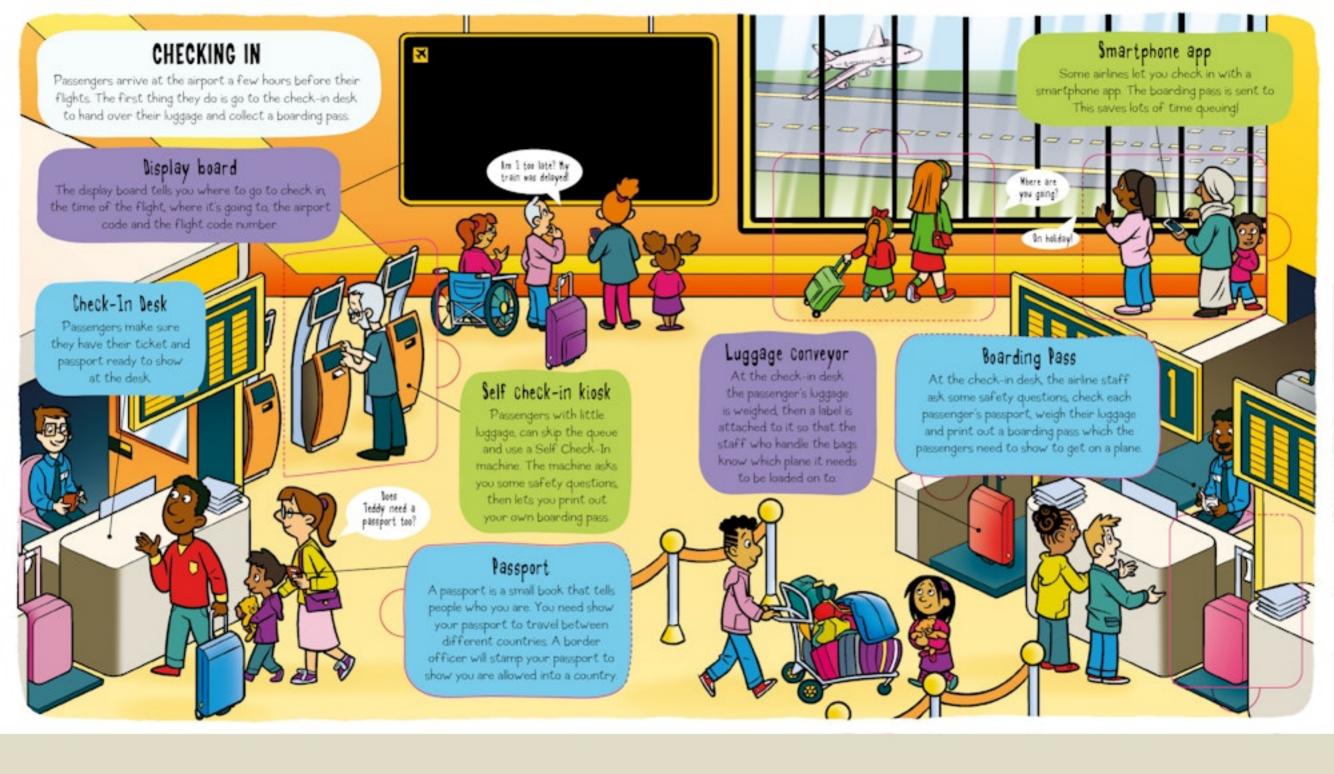


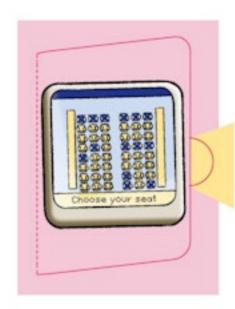
Where's the driver?

Don't worry. This train
doesn't need one. The
shuttle goes back and forth
along the same line and is
controlled by a computer

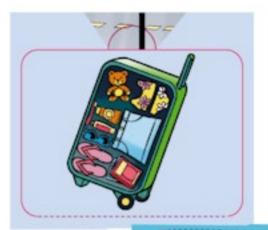
These aircraft fans have come to watch planes take off and land. They are watching a 'Jumbo Jet' taking off.

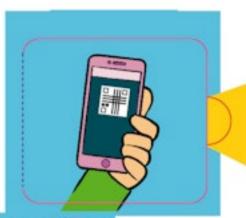
A hangar is where safety checks and repairs happen.
This plane is getting a shiny coat of paint and will look like new when it's finished. What colour do you think it should be?















This pattern of small squares is a QR code. It holds information on the passenger and flight. It can be read by scanning machines and used to open electronic gates. This little girl is going on a beach holiday. She's packed clothes, swimwear, sunglasses, sun cream and flip-flops. You can also see a storybook, a toothbrush, and her favourite toy, because toys like holidays tool

The boarding pass shows the passenger's name, the flight code, where they are travelling to and their seat number on the plane. The boarding time is when the passenger needs to arrive at the plane's gate.

Beggage handlers use that scan machines that scan a code on the luggage label. This tells them where to send each bed. The luggage is taken aboard a trailer taken aboard at the and towed to the To check-in, you need to scan your passport and confirm your flight. You can even choose your seat on the plane. Where will you sit. Window, middle or aisle?

Each passport has a special number, and photo, plus the owner's name, birthday, where they were born and how many years the passport can be used for.

SECURITY CONTROL

Passengers and their carry-on luggage are scanned by machines and security staff. For all passengers' safety, there are rules about what you can carry on a plane.

Security officers

The security officers ask passengers to place their coats, bags, phones, laptops and any other metal objects in trays to pass through an X-ray machine.

I think that's everything.



Sniffer dog

Dogs have an amazing sense of smell Special dogs are trained to sniff out chemicals that are not allowed on planes.

Can you let the dog smell your bag?

Of course!

X-ray machine

Carry-on luggage

Passengers can take one small bag on the plane with them. You might want to carry a book to read or a tablet to play games on

Departures

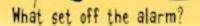
Once passengers have passed the security checks, they can enter the departure lounge where there are lots of shops and a food court.

Come through the scanner, pleasel

DEPARTURES

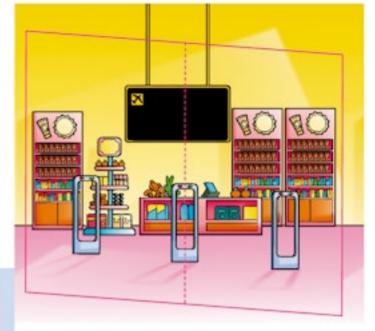
full body scanner

Inside the full-body scanner, the passenger has to raise their arms and stand still. The scanner automatically scans a person from head to toe.







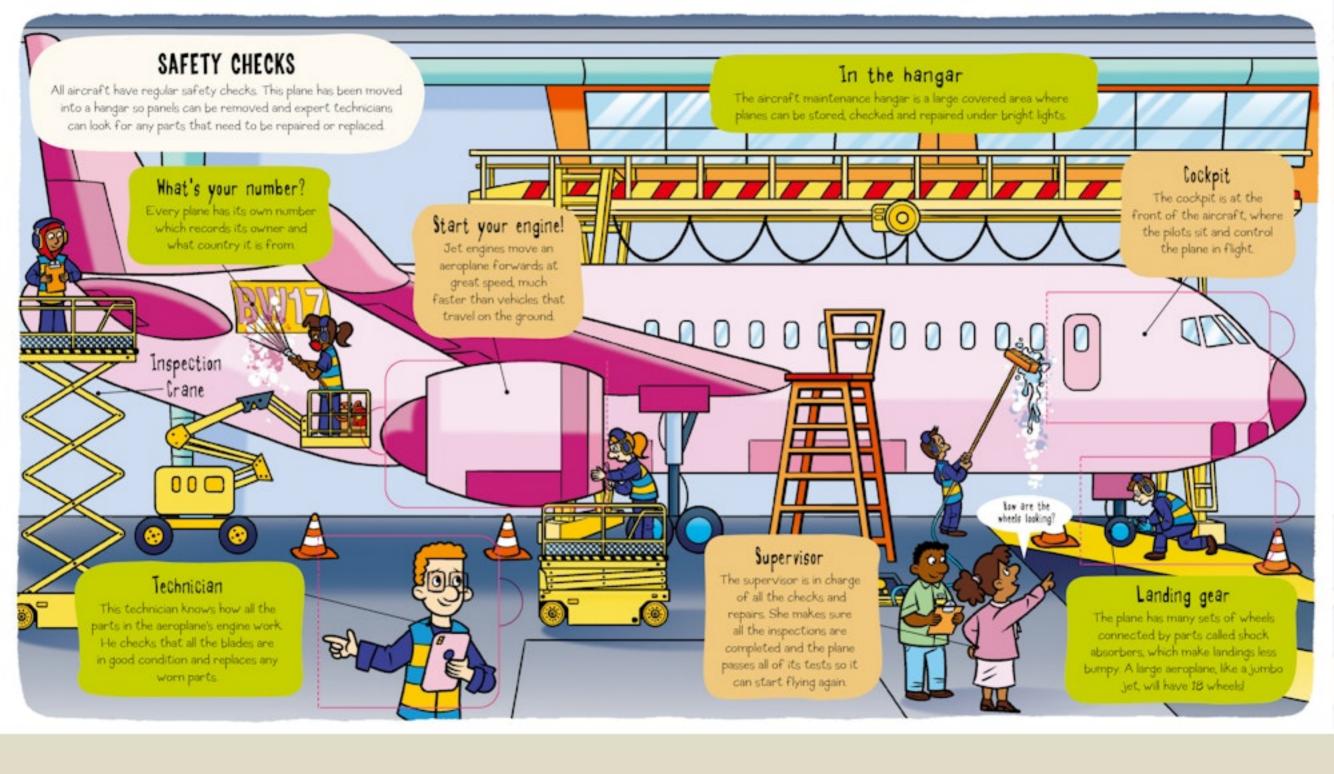




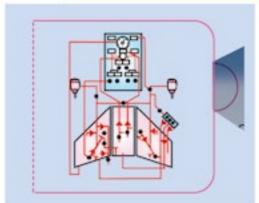
In the departure lounge there are shops and restaurants. You can have a bite to eat before you board the plane. Don't forgot to check the time of your flight on the display board - you don't want to miss take-off!

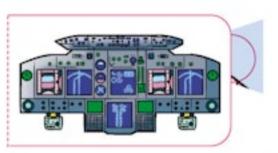
Oops! This passenger forgot to take his car keys from his pocket Luckily it was caught by the security guard's scanner. The full-body scanner will detect any metal objects left in a pocket, a belt buckle or even studs on shoes. If the passenger is carrying any metal items, the machine will beep. Security officer will also check what liquids a passenger is carrying. If a passenger has any liquids, gels, creams or pastes they need to be placed in a clear plastic bag to be checked.

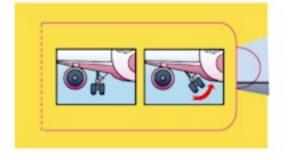
Bags pass through an X-ray machine to let security workers see inside. All carry-on luggage, metal and electronic objects have to go through. This X-ray show a wallet, a jumper, some books, a tooth brush, sunglasses and a bear. Have a safe journey, teddyl







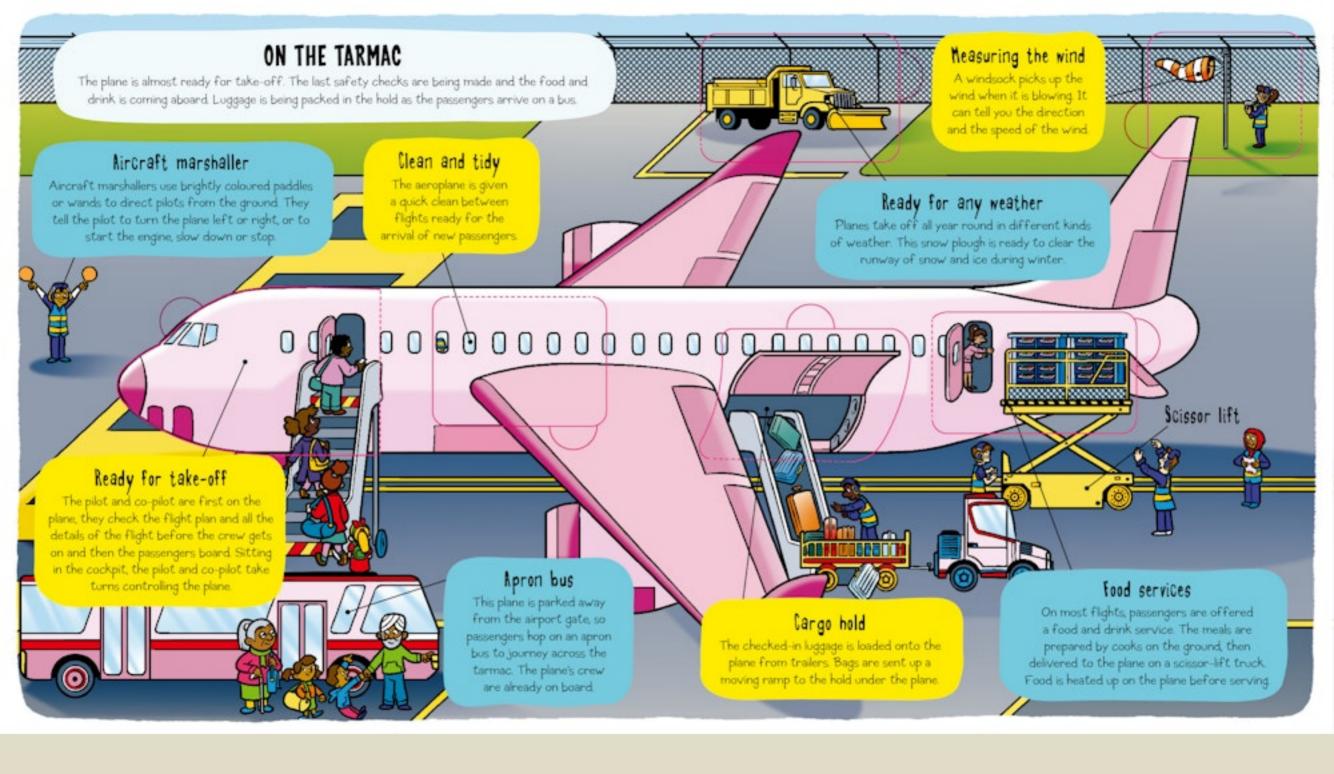




In the cockpit, there are a lot of flight instruments that a pilot needs to understand. A computer autopilot takes control for most of the flight whilst the pilot checks the route and weather ahead.

Aeroplane wheels fold up inside the plane when it takes off, then come down again when the plane is ready to. Inside the engine are spinning blades. They push the air into a chamber where fuel is burned and hot gases are released. The gases are pushed out the back of the engine and that lifts the plane's wing.

> The technician carries detailed plans of the aeroplane on a tablet.

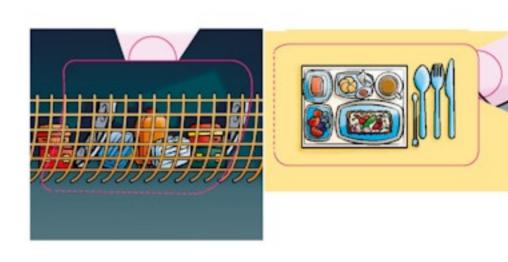












At lower levels, wind can cause the a plane to sway back and forth and if the wind is too strong pilots will choose not to land or take-off.

In icy weather, snow ploughs push snow off the runway. A type of sand called grit is spread to stop the runway freezing and becoming slippery.

Mmm, this food looks yummyl On long flights, you can have a big meal like this one at dinner time.

The luggage is stowed tightly in place and wrapped in netting so the bags don't slide around during the flight. Cleaning staff pick up lost property and rubbish left behind from earlier flights Then they scrub the tray tables, food service areas and tollets. It's hard work! Before take-off the pilots check the flight controls are set and working correctly. Then they give a report to air-traffic control Before take-off, they run through a list of final safety checks.

AIR TRAFFIC CONTROL

The tall tower at the centre of the airport is where the air traffic controllers work. They give instructions to pilots arriving and leaving the airport.

Radar

A radar dish keeps track of where planes are near the airport. This information is sent to the air traffic control tower's computers.



Antennae

An antennae on the roof of the control tower receives radio signals carrying important messages from pilots in the air and on the ground.





Elight WI-1710 From Munich requesting to land. Over.

Stack

When lots of planes arrive at once, they join a queue called a stack. In a stack the pilot flies the plane in a wide circle around the airport until they are told it's their turn to land.

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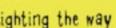


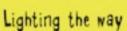
Requesting landing

The airport radar has spotted a plane approaching the airport. The pilot calls air traffic control and requests instructions for landing



of lights and lit-up signs that begin before the runway as a guide to pilots.





Runways are lined with rows come on after dark and during foggy weather. Approach lights



A4 17- 35



Air traffic controllers

Air traffic controllers have really important jobs. They use the

radar and radio to track planes leaving and arriving. They also

direct plots and choose a safe path for them through the sky.

Monitoring the sky

On the screen, a controller can see the code number of each flight and their position near the airport.

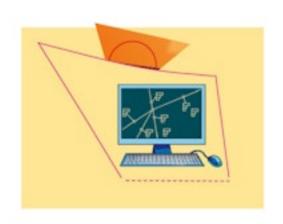


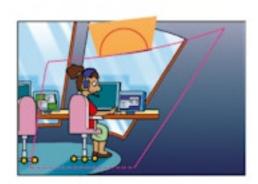
What's the weather like?

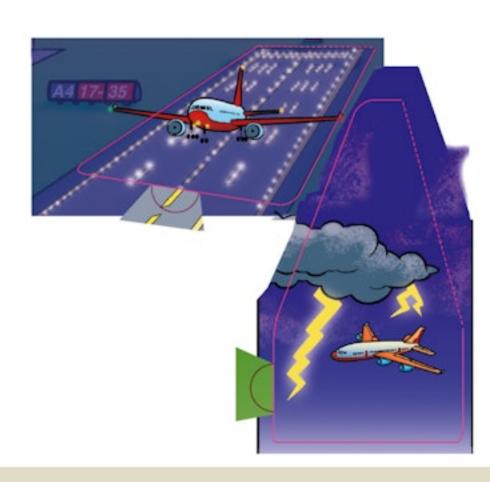
Airports have their very own weather stations to measure the conditions at the airport. Weather stations record the temperature, wind speed and direction, all to help planes land safely.











The controller sees the plane and its flight code on a monitor screen and calls the pilot back to give her permission to land and the number of the runway she should use.

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To keep their passengers safe, pilots may need to change their flight plan to dodge storms or any extreme weather. Talk about multi-tasking! Air traffic controllers look at all lots of different monitors at once

The screen shows things such as how high a plane is and how fast it's going.

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ABOARD THE PLANE Everyone is on board, the passengers, the crew and the pilots Now it's time to watch the safety demonstration, then get settled in and ready before taking off. Enjoy the flight!

Can 1 help?

The cabin crew look after the comfort and safety of the passengers. They serve everyone's meals and help with any problems. They are also trained to handle emergencies.

Mind your head

Passengers put their carry-on luggage in overhead lockers. It must be shut away safely for take-off and landing, but during the flight you can get things out.

Controls

Above the seats are a set of controls for each passenger. You can turn on the cold air, switch on a reading light or call for help from a member of the cabin crew

Toilet

The toilets are in use. Wait for the red light to turn green. That means they're free.

What's happening here?



Life jackets

If the plane needs to make an emergency landing on water, passengers will be asked to put on life jackets. These are usually stored under the seats.

Inflight entertainment

What film shall we watch?

On some planes, a screen can be found on the back of the seats. You can watch films, play games and even track the plane's journey! What would you like to see?

Safety first!

Aboard the plane, passengers are shown what to do in case of an emergency. The crew point out the exit doors, oxygen masks and safety cards, and show everyone how to use life jackets

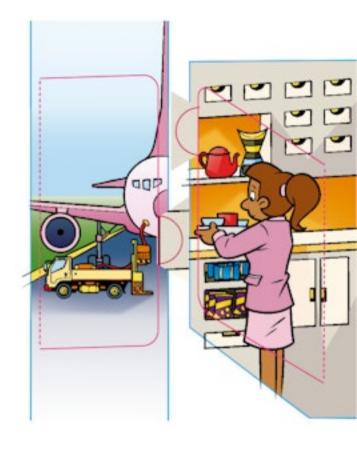
Behind the curtains

Through these curtains is the galley where the cabin crew rest their feet and prepare meals for the passengers.









In the galley there are ovens for heating food, plus tea and coffeemachines and storage space for cold snacks. The waste from the toilet doesn't fall out of the bottom of the plane. It is stored in tanks which are emptied into a toilet service truck when the plane arrives at an airport.

This passenger pressed the help button to ask for a glass of water.

Be careful when opening an overhead locker. Something could fall out and land on someonel Luckily, the cabin crew have their own lockers and first-aid kits.

The plane can be pilots seel plane can be seed on the passenger's screen -

Llife jackets help you float on water. They fill up with air when you pull a cord. The jackets also have whistle so you can call for help, and a flashing light

BAGGAGE RECLAIM

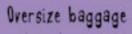
The plane has landed safe and sound and the passengers arrive at a different airport. Their bags are taken off the plane separately and delivered to the baggage reclaim room for collection.

Carousel

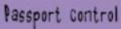
The bags are unloaded from the plane and placed on a moving surface called a carousel. It travels in a loop so passengers can collect their bags as they pass by.



If all your bags lost luggage desk find your bags.



Large luggage is collected from a separate room. What do you think was packed in these bags?



Before you can enter a new country, you need to show your passport. The passport officer scans it to check that you look like your are actually youl



Lost luggage

Something missing? didn't turn up on the carousel ask at the They can help you



Customs

After collecting their luggage, passengers pass through an area called customs. Where customs officers make sure no banned items are brought into the country



Welcome home!

These people are here to greet passengers arriving off the plane. Some are holding signs to find the people they are taking to their next destination



NO you remember the jobs these people do?

Look back through the book to see if you can find them.



Baggage Handler



Security officer





Technician Supervisor



Air traffic controller



Cabin Crew





Most pets have to travel in the cargo hold with other pets and are reunited with their owners by the airline staff the end airline staff the end

This passenger's bag has been found. What a relief! Now she can leave the airport.

Some travellers who have been on sporting trips taking their own bicycle and surfboard with them. The double bass belongs to a touring musician.
