Unidentified Flying Objects

In 1947 a pilot called Kenneth Arnold was flying over Mount Rainier in Washington, USA when he saw some strange crescent-shaped aircraft moving at huge speed.

Arnold described the objects as flying like a saucer would if you skimmed it across the water. Newspaper reports then called them 'flying saucers', and this name has been used to describe many UFOs (Unidentified Flying Objects) ever since.

During the 1970s many people reported seeing large triangular aircraft moving slowing and silently across the sky. These mysterious objects were seen mainly across the skies of England and Europe. They did not look like any aircraft ever seen before.

In 1974 people in Llandrillo, Wales were frightened by a massive explosion and rumbling sound. They could also see bright lights moving quickly across the night sky. Army officials soon appeared on the scene and stories spread that a UFO had crashed on a nearby mountain. It was rumoured that its alien passengers had been taken away in secrecy by the army.

In 1978 in New
Zealand strange lights
were spotted in the
skies off the coast of
Kaikoura. Air traffic
controllers could not
identify them as any
known aircraft. Many
anxious people called
the local police as they
could see powerful
beams of light being
projected on to the sea
from the craft.



These are
just a very few of
the thousands of stories
told about UFOs. What
are these objects and
where do they come
from?

Unidentified Weird Lights

Hessdalen Lights

Yellowish, bullet-shaped lights and small red dots were seen in the sky in a remote region of Norway in the 1980s. Investigators flashed a laser beam at one light and it seemed to send answering flashes.

Sea Lights

For centuries sailors have reported seeing swirling wheels of light below the surface of the sea in the Persian Gulf and Indian Ocean. The wheels sometimes appear to rise spookily above the water.

Foo Fighters

Mysterious balls of light were seen in the skies by World War Two fighter pilots in the 1940s. These unidentifiable lights would fly near to or alongside their aircraft.







Turn over to read the case file notes...

CASE FILE - UFOs

The evidence so far...

Turn back to read the stories behind the case file...

WITNESSES

Thousands of

Thousands over

People all over

the world.

Key Witness

Kenneth Arnold, a pilot, who first described
UFOs as 'flying like a saucer'.
He became the world's first private UFO
investigator. He interviewed many other people
who claimed to have seen strange flying objects
in the sky.

An FBI officer interviewed Kenneth Arnold and stated: 'It is the personal opinion of the interviewer that he actually saw what he states he saw.'



Time

Modern sightings began with Kenneth Arnold in 1947. Many of the reports date from the era of humans' first space exploration. Perhaps people had spaceships on the brain!



Many photos and films.

These are easy to fake or take from an angle that makes something normal look weird.

The Kaikoura UFOs were captured on film by a journalist on board a cargo plane. You can hear the real fear in the voices of the witnesses on the soundtrack.

Description

Different shapes and forms.
After the 'flying saucer' label was used many people said they had seen saucer-shaped UFOs.

Alien Word ufology

(you-follow-gee) is the study of unidentified flying objects (UFOs). UFOs are really aircraft, weather balloons, satellites, or a trick of the light.

Over 20 different theories were suggested for the Kaikoura sightings, but it is still not known what those UFOs were doing there or where they had come from.

Arnold was seeing reflections on his aircraft canopy, missiles, snow flurries or birds in flight.
Arnold totally disagreed with these suggestions.

Main theories Flying triangles were stealth bombers and test planes, but there has never been any official government explanation.

Could the Llandrillo incident have been an earth tremor or hunters with powerful lights? But why did the army appear so quickly on the scene and warn people to stay away?



Conspiracy Theory

Many UFO hunters think that governments around the world are hiding information about UFOs and their alien passengers.

CASE FILE - Lights in the Sky

Hessdalen Lights

Were they caused by something unusual in the rocks of that area? But why did the lights seem to 'answer' the laser beam?

Sea Lights

Could they be huge numbers of glowing, phosphorescent sea creatures? But why in a wheel shape? Could it be alien craft under the water?

Foo Fighters

Was it a secret weapon of some sort? But they never harmed the fighter planes.

CASE FILE - Bigfoot

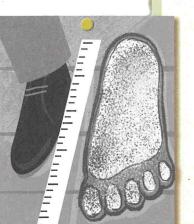
The evidence so far...

Turn back to read the stories behind the case file...

Bluff Creek Video

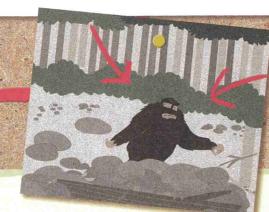
The film taken in 1967 by Roger Patterson shows the creature turning to look at him and walking rapidly into the woods.

- Is it just someone in a gorilla suit?
- The Disney film company said at the time that it would have been very difficult and expensive to fake this and the movements of the animal.



Photos

A large number of these exist. Most of them are pretty blurry, but the people who took them were shocked and scared.



No bones or bodies have ever been found!

Giant Footsteps

Many Sasquatch footprints have been seen over the years and plaster casts have been taken of some of them.

- It is easy to fake these and some people have even admitted to making enormous wooden feet to produce joke prints.
- But some Bigfoot tracks are so detailed that 'fingerprints' (or dermatoglyphs) can be seen and these are very hard to fake.

Witness Statements

There is a long history of sightings. Does this make it more likely that there is some truth in them?

'My first impression was of a huge man, about six feet tall, almost three feet wide ... covered from head to foot with dark brown silver-tipped hair.

William Roe, Highway Worker, 1955.

'I am not entirely sure what I saw that day but I know it was not a bear and it was not a human!

14-year-old boy out hunting, 1990.

Newspapers and the internet mean that Bigfoot stories can be spread all round the world. Maybe some people might make up a sighting to have their moment of fame?

Bigfoot Identikit

Height:

1.8-3 metres (6-10 feet).

Shoulders:

91 cm (3 feet) wide.

Fur:

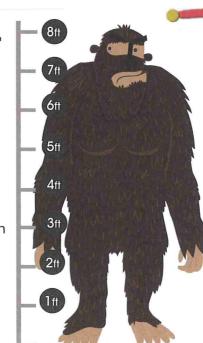
dark brown or reddish brown, none around mouth and eyes.

Head:

conical, with ears on side.

Feet:

30-55 cm (1-1.8 feet) long.



Bigfoot is a kind of human. Could it be a 'missing link' between primitive humans and us?

Bigfoot is a bear. But bears don't generally walk on aind legs and their ears are on top of their heads.

Main Theories

to a type of giant ape called Gigantopithecus that died out 100,000 years

Bigfoot is related Bigfoot does not exist!

Location Mainland Canada and USA, but most often in the vast, deep **Alma** forests of the Northwest regions. Mongolia or Plenty of hiding places for a

Yeti Himalayas

Orang **Pendek** Sumatra

Yowie or 'Big Fellah'

Australia

Yeren China

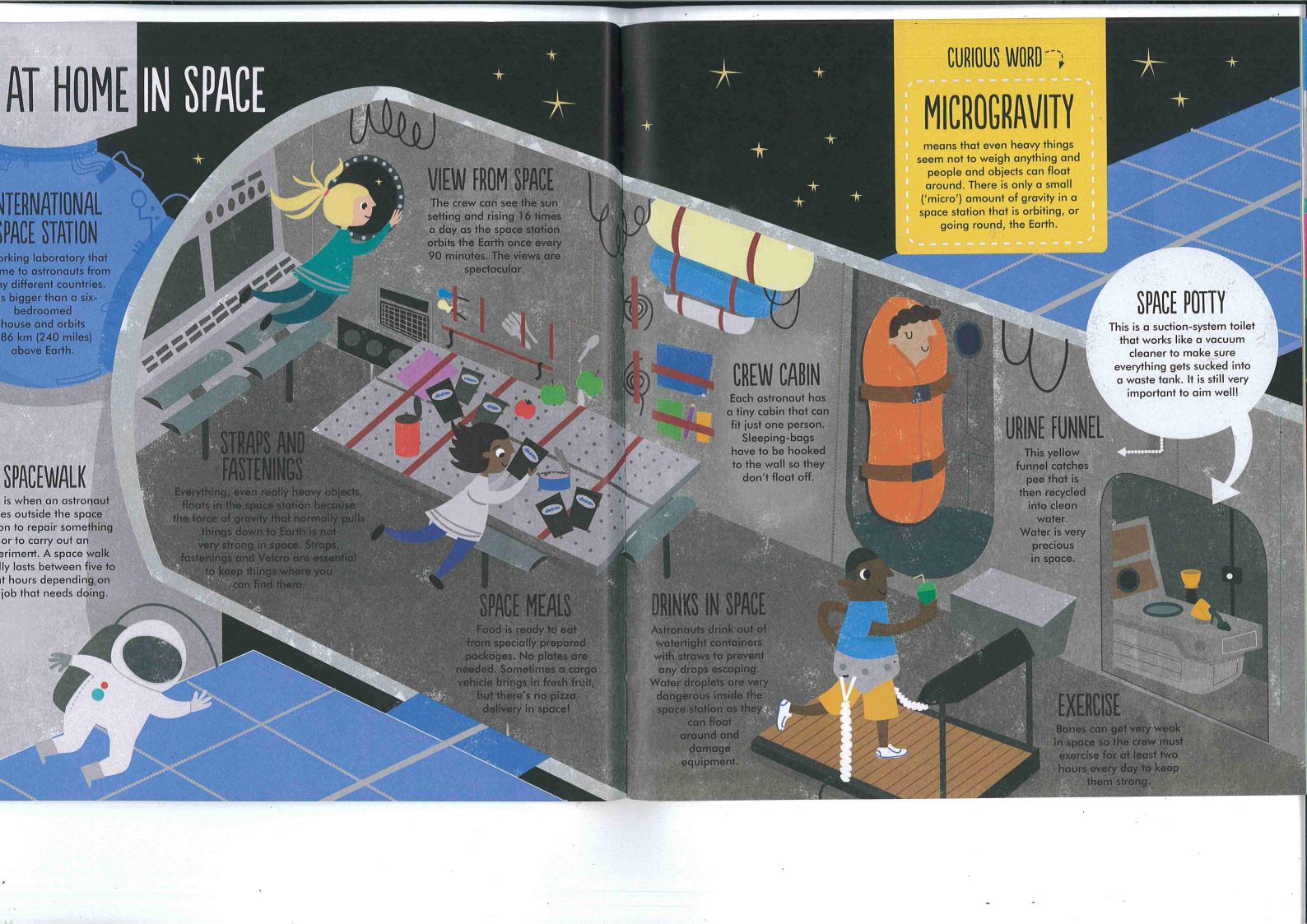
Russia

Further Investigations

mysterious beast.

Other forms of ape-men or 'wild men' to find out about.

Camp out in the woods if you dare!



ANIMALS ON DUTY



DOG DETECTIVES

Sniffer dogs are trained to find illegal drugs, guns, explosives or blood at crime scenes. Search dogs are used to find missing people and bodies.

MEDAL WINNERS

The Dickin Medal is a special award for animal bravery in wartime. Since 1943 it has been awarded to 32 pigeons (used as messengers), 29 dogs, three horses and Simon the cat.



VAR DOGS

have been used in wartime ce ancient times. Sergeant by, a Boston Bull Terrier, is have captured a spy during World War One!



Simon was the Captain's cat on HMS Amethyst during
World War Two. Even though he was wounded, he kept everyone cheerful during a terrible attack.



HUNTING WITH EAGLES

The Kazakh people of western
Mongolia use golden eagles to hunt for
foxes and hares. They train them when
they are little eaglets, but always return
them to the wild after a few years of
hunting together.

CURIOUS WORD

DOMESTICATED

is used to describe pets or other animals that are trained to live or work for humans.

SNIFFING SKILLS

Dogs can help scientists

find threatened species like bumblebees. They can also sniff out cancer in humans and let people with diabetes know when they need their medicine.

DOCTOR RAT

In Tanzania in Africa they have trained rats to sniff human spit to see if a person has a nasty illness called tuberculosis. The rats can do it in minutes and this means the person can be helped straightaway.



BLOODSUCKERS

Leeches like to suck the blood of mammals, including humans. Doctors can use them to create a good flow of blood when skin is grafted from one part of the body to an injured part.





The US Navy uses dolphins and sea lions to find and mark suspicious objects in the ocean, like mines (bombs in the sea). Dolphins use their echolocation skill and sea lions are really good at seeing in dark, murky waters.

BEST-FRIEND DOGS

Guide dogs are trained to help blind people at home and when they are out and about. Hearing dogs will nudge or put a paw on a deaf person to alert them to noises like the telephone, doorbell or an alarm.



LEVER CAMOUFLAGE

PRETEND TO BE DEAD

oakleaf butterfly looks just like a dead leaf when it folds wings. Even the veins underneath look like those on a eaf. No wonder its other name is dead-leaf butterfly!



INVISIBLE TOAD

and toads in the rainforest have to be able to hide from y predators. The Asian horned toad can blend in with its surroundings on a bed of rotting leaves.



HIDDEN FAWN

Newborn baby deer have markings on their coats to look like sunlight coming through the leaves in a forest. They keep very still so predators cannot see them.

CAMOUFLAGE

Most wild creatures are difficult to see because their shape or colour helps them blend into where they live. Camouflage can help animals to hide from predators or to hunt for prey.

FAKE WASF

The wasp beetle pretends to be a wasp with its black and yellow warning stripes. It is handy for protection to look fiercer than you are.



SPOTTY SHARK

The spotted wobbegong is a type of carpet shark that is flat and patterned pale yellow or greenish brown with spots. This is superb camouflage for lurking on all types of seabed. It will give you a nasty bite if you step on it!

CURIOUS WORD

MIMICRY

is when a creature pretends to be something else to protect itself or to find prey.

ARCTIC FUI

The beautiful arctic fox is dark in the summer and white in the winter snows. Its thick fur even covers the soles of its feet.

SHIMMERING STRIPES

When zebras stand together they are a confusing mass of black and white patterns that make it difficult for a lion to nab one! In the shimmering heat haze of Africa the zebra's stripes blur.



INVISIBLE CATS

Tigers, jaguars, ocelots and leopards are all members of the cat family with beautiful camouflage markings. They can blend in with their surroundings to hunt their prey.



COLOUR-CHANGE CUTTLEFISH

These are masters of disguise and can change their colour and even the texture of their skin to match different types of seabed. They can even disguise themselves as clumps of floating seaweed!



Leopard



DWERING THE PLANET



ENERGY FROM THE SUN

Heat and light from the Sun take just over 8 minutes to reach the Earth. Plants and trees use the energy in sunlight to make their own food.



GREENHOUSE GAS

Oil, coal and gas will not last for ever. Burning them makes a gas called carbon dioxide that traps the Sun's heat near Earth, creating what is called the Greenhouse Effect. Our climate seems to be changing because of this and we must find ways of slowing it down.

WIND POWER

A wind turbine has propellers that turn in the wind to drive a machine called a generator that can make electricity. They do not make greenhouse gases, but need lots of wind and some people really do not like the look of them near their houses.

CURIOUS WORDS

energy comes from things that do not run out, like the Sun or the sea.

energy comes from sources that will run out. We cannot make any more of them.



NUCLEAR POWER

Uranium ore is made into a metal that can make a huge amount of electricity. The disadvantage is that it produces very dangerous radioactive waste that has to be stored very carefully.



TIDAL ENERGY

The tide changes movement of the water can be used to turn generators without producing harmful gases.

twice a day and the that create electricity

uels like oil, coal and gas ormed millions of years om the remains of dead and animals. Using them ce electricity and as fuel causes pollution and the Greenhouse Effect



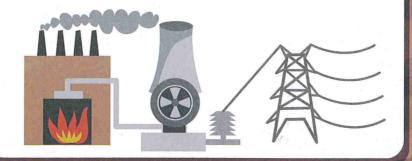
Hydro-electricity is made by building a dam across a river or lake and then forcing the water down tunnels to turn turbines to make electricity. No harmful gases are created, but building a dam totally changes the environment nearby.

SOLAR POWER

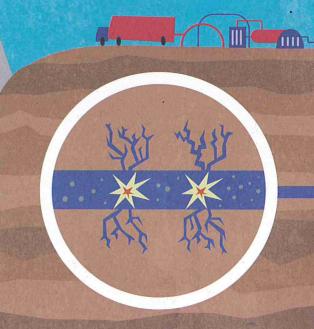
Solar panels, or photovoltaic cells, make electricity from the power of the Sun. The Sun will not run out soon, but it is expensive to build solar power stations and the panels cannot work if it is cloudy.

BIOMASS ENERGY

Electricity can be made from burning wood, plants and our old rubbish. It is a good way of using up waste, but burning it creates greenhouse gases. Growing trees to burn also takes up room where crops might be planted to feed people.



Water, sand and chemicals are injected into shale rock to 'fracture' it and release the gas and oil inside it. There is a worry that the chemicals may be harmful, the process uses loads of water and it may cause small earthquakes.



NHIZZY STUFF IN THE GALAXIES

ARTIFICIAL SATELLITES

These are launched into space by rockets.

They go round (orbit) the Earth and are

used for communications, sending

television and phone signals, for

watching the weather, for helping us

navigate the planet and for spying!

SPACE TELESCOPES

ese satellites are used to look at the planets and stars. The Hubble Space Telescope in see further into space than elescopes on the ground, but is difficult and expensive to bounch and, if anything goes wrong, only astronauts can fix it.

SPACE PROBES

Space probes do not have humans on board. They can travel for years to other planets or moons to collect and send back scientific information. Some space probes go into orbit around other planets, some land on them and others leave our Solar System to explore far into space.

METEORS

There are little chunks of rock in space called meteoroids. When they reach the Earth's atmosphere they get really hot and burn up, looking like amazing fireworks streaking across the sky. These are called meteors or, sometimes, shooting stars.

METEORITE

When a meteor hits the
Earth it is called a meteorite.
Some of them have made
huge holes, or craters, in the
ground. In Arizona, USA there
is a massive one over
1 kilometre wide.

CURIOUS WORD -;

CELESTIAL

is a word used to describe things in the sky or outer space. Planets and stars are celestial bodies.

BLACK HOLE

This may form after a star has exploded. It is a very tight ball of gas that has such a huge pull of gravity that it even sucks light into it.

NEBULAE

Nebulae are enormous gas clouds in space where stars are born. Stars are huge balls of burning gas. As the stars get bigger, the nebulae begin to glow. The nearest star to Earth is the Sun.

RED GIANT

Stars burn for billions of years, but then they begin to run out of gas. They then change from white to red, grow bigger and become red giants.

SUPERNOVA

Other red giants get bigger and bigger until there is gigantic explosion called a supernova.

WHITE DWARF

Some red giants slowly shrink and become stars that are called white dwarfs.

COMETS

These are great big dirty ice balls that can be several kilometres across. If they come close to the Sun the ice in them melts and creates a tail of dust and gas. Halley's Comet can be seen from Earth every 75-76 years. Its next visit will be 2061.

