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U T P C A R T E
N F O R R A I C
I A W O T L B A
O R E P S O R P
N C R S A P O S

An artificial satellite is a space craft in orbit around the Earth. It could be in Low Earth Orbit (LEO), or all the way out to geostationary orbit, 36,000 km high, where its orbital period matches the rotation of the Earth.

The first satellite was **Sputnik** 1, launched by the Soviet **Union** in 1957. America's first launch attempt with its **Vanguard** rocket failed, though Explorer 1 was successfully launched on a Juno rocket in January 1958.

The USA launched the UK's first satellite, called **Ariel**, in 1962, and then, after France, **Japan** and **China**, the UK became the **sixth** nation to launch its own satellite, called **Prospero**, on 28 October, 1971.

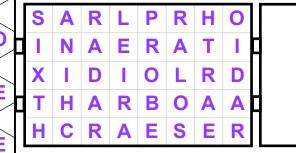
We use satellites in many ways; to **communicate** - e.g. the **TDRS** system, and SKY TV uses the **Astra** series; helping us **navigate** - such as with the **GPS** system; to carry out **research**

World Space Week is a global celebration of space exploration that takes place each year from October 4 - 10.

The theme for 2020 is "Satellites Improve Life", so here is a satellite Word-Search.

All the words that are in **bold type** in the text below can be found in the grid - across, down or at an angle - sometimes reading backwards!

When you have found them all, re-arrange the letters that are left over to make something extra!



in many branches of **science**; and by **observing** the Earth - showing the weather, monitoring **crops** and helping with **conservation**. They also use **RADAR** to make measurements.

They monitor the Earth on a daily basis, providing rapid information to help give us a safer world.

They are usually placed in **equatorial** orbits, though some are in **polar** orbits. We **uplink** commands and receive data by **radio**. They usually use **solar panels** to charge on-board batteries for **power**.

We have also sent **unmanned probes** to the Moon - such as the **Lunik** series - and to the planets, such as **Venus**.

There are over 2,000 **active** satellites orbiting the Earth. The biggest is the International Space Station - the **ISS** - and we **plan** many more.

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