



This term we are going to be looking at SPACE! There are going to be some great quick builds from UFOs to Astronauts!

During the second half of the club, the children like to join worlds on the router provided to work in teams on a long build project. This build may span several weeks so it is important that the children get the same tablet each week. Although we have suggested some long build ideas for each week, feel free to jiggle things around or even come up with your own.

The main thing is that the quick builds are done as described on the correct week as this forms the basis of the inter school competition where your school can earn points for the national leaderboard.

### **The Quick Builds**

The first half of the club is usually taken up with the quick build. The Fabretta and Jay videos can be used directly from **Youtube** each week or downloaded from **Dropbox** if that is easier. Fabretta will cover the basic learning objectives each week along with the rules for the club and a timed quick build for the children to work along with.

Usually the teacher will choose the best from each table and get the children to show their creations at the front. The rest of the children can then vote on who they want to win. You should then take a photo (screenshot) of this with your phone and send it in to us each week (send to [competition@milittlepad.com](mailto:competition@milittlepad.com)). Parents and children can then vote for their favourites online.



### **Team Build Competition**

Don't forget to let the children know that you will be sending in some screenshots of their team builds (long build projects) at the end of the half term and that there will be prizes for the best schools!

## Week 1 - First Man in Space

**Yuri Gagarin** (1934 – 27 March 1968) was a Russian Soviet pilot and cosmonaut. He was the first human to journey into outer space, when his Vostok spacecraft completed an orbit of the Earth on 12 April 1961.



Gagarin became an international celebrity and was awarded many medals and titles, including Hero of the Soviet Union, the nation's highest honour. Vostok 1 marked his only spaceflight, but he served as backup crew on other missions. He even featured on a Russian stamp! (below)

**Did You Know...** Since Yuri Gagarin, more than 500 people have made a journey into space! Of the **536, three people** completed only a sub-orbital flight, **533 people** reached Earth orbit, 24 traveled beyond low Earth orbit and 12 walked on the Moon. Space travellers have spent over 29,000 person-days (or a cumulative total of over 77 years) in space including over 100 person-days of spacewalks.

**Quick Build...** An Astronaut!

### Team Builds (Long Build)

See if you can build a moon base! There is a lot to construct from scientific laboratories to laser defence systems! Don't forget that our astronauts need somewhere to work, rest and play...where are they going to sleep? They definitely need a gym because there is low gravity on the moon to work their muscles!

## Week 2 - First Man on the Moon

**Neil Armstrong** (1930 – 2012) was an American astronaut and the first person to walk on the Moon in 1969. He was also an aerospace engineer and university professor.

**Did You Know...** Armstrong was an extremely brave test pilot and flew some of the fastest experimental aircraft ever invented. Here is a picture of him below (Taken in 1960) with the completely mad X-15 that could fly at more than 4000mph!!



**Quick Build...** A Space Rocket!

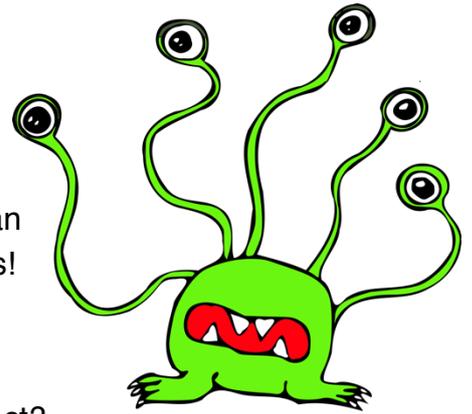
### Team Build (Long Build)

See if you can build a moon base! There is a lot to construct from scientific laboratories to laser defence systems! Don't forget that our astronauts need somewhere to work, rest and play...where are they going to sleep? They definitely need a gym because there is low gravity on the moon to work their muscles!



## Week 3 - UFOs

During the late 1940s and through the 1950s, UFOs were often referred to popularly as "flying saucers" or "flying discs". The term UFO became more widespread during the 1950s and many thought that sightings of such objects were an indication that we were having alien visitors from other planets!



**Did you know...** that UFO stands for Unidentified Flying Object?

**Quick Build...** An Alien!

### Team Builds (Long Build)

See if you can build a moon base!

There a lot to construct from scientific laboratories to laser defence systems! Don't forget that our astronauts need somewhere to work, rest and play...where are they going to sleep? They definitely need a gym because there is low gravity on the moon to work their muscles!



## Week 4 - The Space Shuttle

The **Space Shuttle** was a partially reusable spacecraft operated by NASA (the space agency in America). The first of four orbital test flights occurred in 1981, leading to operational flights beginning in 1982. They were used on a total of 135 missions from 1981 to 2011, launched from the Kennedy Space Center (KSC) in Florida.

**Did you know...** that during its test flights, the Space Shuttle was carried high into the atmosphere on the back of a jumbo jet (pic below) Almost unbelievable that the jumbo jet could take off with that on it's back!



**Quick Build...** A Space Shuttle!

### Team Build (Long Build)

See if you can build a moon base! There a lot to construct from scientific laboratories to laser defence systems! Don't forget that our astronauts need somewhere to work, rest and play...where are they going to sleep? They definitely need a gym because there is low gravity on the moon to work their muscles!



## Week 5 - The International Space Station

Back in 2015, our very own Tim Peake spent 6 months on the International Space Station and carried out many scientific experiments. He was the first British ESA astronaut to visit the International Space Station.

The **International Space Station (ISS)** is a space station, or a habitable artificial satellite, in low Earth orbit. Its first component launched into orbit in 1998. The ISS consists of pressurised modules, external trusses, solar arrays, and other components. ISS components have been launched by Russian Proton and Soyuz rockets as well as American Space Shuttles.



**Did you know...** the ISS is now the largest artificial body in orbit and can often be seen with the naked eye from Earth!

**Quick Build...** A Space Station!

### Team Build (Long Build)

See if you can build a moon base! There's a lot to construct from scientific laboratories to laser defence systems! Don't forget that our astronauts need somewhere to work, rest and play...where are they going to sleep? They definitely need a gym because there is low gravity on the moon to work their muscles!



## Week 6 - Snowmen

As Christmas isn't far away we thought we would take a break from our SPACE topic and explore some different things based on a **frosty theme!**

This week we are looking at snowmen. A snowman is a snow sculpture often built by children in regions with sufficient snowfall. In many places, typical snowmen consist of three large snowballs of different sizes. Common accessories include branches for arms and a smiley face with a carrot for a nose. Clothing, such as a hat or scarf, is often used.

Did you know - The record for the world's largest snowman was set in 2008 in Bethel, Maine. The snowwoman stood 122 feet 1 inch (37.21 m) in height.

**Quick Build...** A Snowman or Santa Claus!

**Team Build (Winter Wonderland Featuring Santa's Grotto etc)**

A winter wonderland is a bit like a winter fair with rides and attractions suited to the wintery conditions. Bright lights are very important if you want yours to look impressive as winter evenings are often very dark. Could you build a winter rollercoaster or big wheel? What about ice skating?!



## Week 7 - Reindeer

This week we are looking at reindeer. Reindeer and caribou are actually the same species but there are substantial differences between the two. Caribou are large, wild, elk-like animals which can be found in northern North America and Greenland and have never been domesticated. Reindeer are slightly smaller and were domesticated in northern Eurasia about 2000 years ago.

**Did you know** - Their noses are specially designed to warm the air before it gets to their lungs. Reindeer hooves expand in summer when the ground is soft and shrink in winter when the ground is hard.

**Quick Build...A Reindeer With A Red Nose!**

**Team Build (Winter Wonderland Featuring Santa's Grotto etc)**

A winter wonderland is a bit like a winter fair with rides and attractions suited to the wintery conditions. Bright lights are very important if you want yours to look impressive as winter evenings are often very dark. Could you build a winter rollercoaster or big wheel? What about ice skating?!

