

# THE SPACE RACE



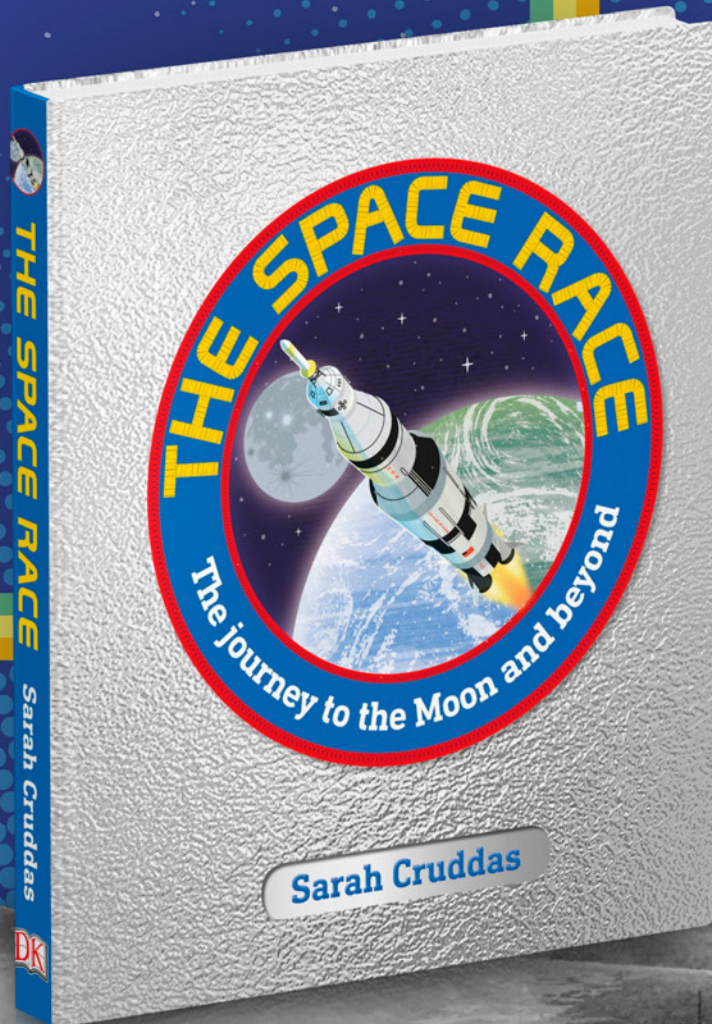
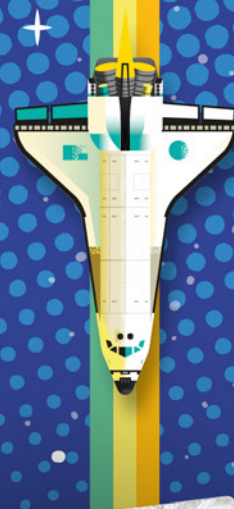
**Take an awe-inspiring journey through space history!**

Blast off with the first rockets, walk on the Moon with Neil Armstrong in 1969, and float around the International Space Station in *The Space Race* by Sarah Cruddas.

It's not just history, though – more people are exploring space now than ever before. Find out what they're doing, where you can book yourself a space holiday, and how scientists plan to live on Mars.

Includes an inspiring foreword by Eileen Collins, the first female Space Shuttle Commander.

**Enjoy three fun activities based on the book!**





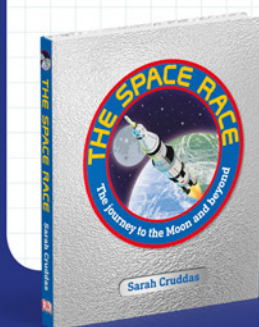


# DESIGN YOUR OWN ROCKET



To travel to space, you need a powerful rocket. While rockets are modern inventions, the ideas behind them are thousands of years old.

**Design your own rocket to get you to space.**



Based on *The Space Race* by Sarah Cruddas

## How rockets work

The basic principles behind rockets are fairly simple. Burning rocket fuel releases gases that push the rocket skywards. To work, the rocket has a hole in the base for the gas to escape from, and a smooth, shaped top so that it can easily glide through the air and not be slowed down.



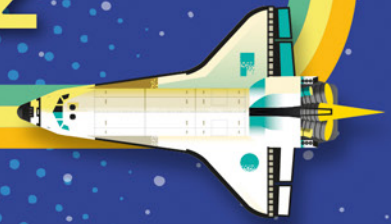
**Reaction**  
The rocket reacts to the power of the gas being pushed out of the back by moving upwards.

**Action**  
Pushing the gas out of the bottom of the engine makes the rocket move forwards.





# TRUE OR FALSE SPACE QUIZ



After the Moon landing on 20th July 1969 humans had many more adventures in space. How much do you know about space travel? **Try this true or false quiz to test yourself.**

Find some clues on the first page of this activity pack!

**1**  
Voyager 2 launched into Space before Voyager 1

True False

**2**  
Eileen Collins was the first female Space Shuttle Commander

True False

**3**  
Out of every human that has ever existed, only 12 have walked on the Moon

True False

**4**  
The Space Race book was the first British children's book to travel to space

True False

**5**  
The last Apollo mission was Apollo 13

True False

**6**  
Aquanauts is the nickname for the astronauts who live in an underwater base called Aquarius

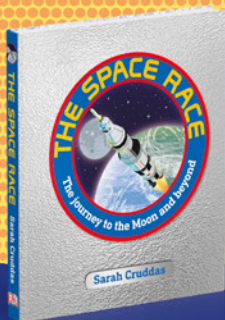
True False

**7**  
LEGO® Minifigures have been to Jupiter

True False

**8**  
The Soviet Union's space station was called Mir, which means 'hope' in Russian

True False



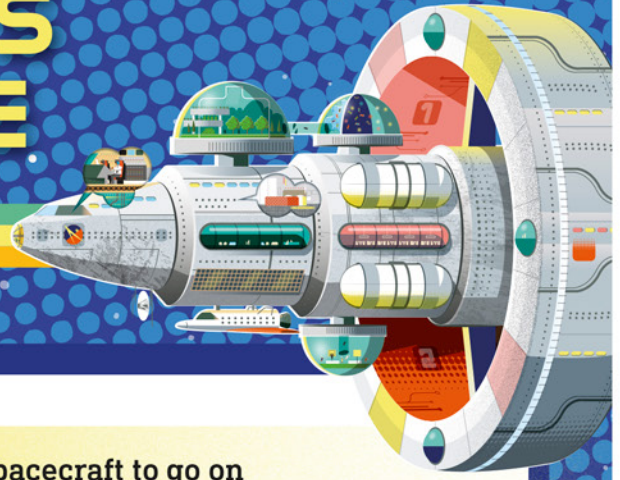
Based on *The Space Race* by Sarah Cruddas

ANSWERS: (1) True, but it reached Jupiter after Voyager 1 (2) True (3) True (4) True (5) False - it was Apollo 17 (6) True (7) True - the Minifigures were of the god Jupiter, his wife Juno, and scientist Galileo Galilei (8) False - Mir means peace

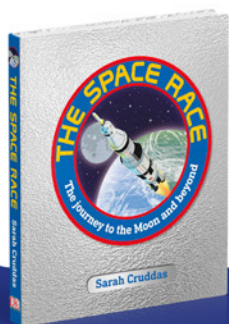




# HOLIDAYS IN SPACE



One day in the future, people may be able to board a spacecraft to go on a holiday to another planet. **Design a poster to show people why they should go to Mars on their summer holiday.**



Based on *The Space Race* by Sarah Cruddas

The first  
person to  
walk on Mars  
is probably in  
school right  
now!