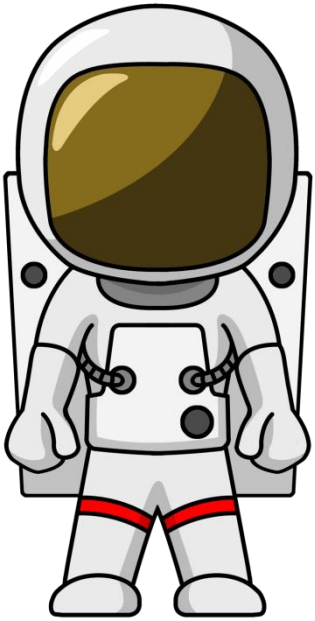
YEAR 3

Astronaut Academy



Spring term 2018

Homework Project Booklet

Welcome to the Spring Term homework booklet! Here you are presented with a choice of tasks to complete over the term, many of which are linked to your topic.

Each week you must complete a maths task (usually set by your teacher*) and one other activity selected from the booklet. Please continue to hand in your homework book weekly on a <u>Wednesday</u> for checking progress and marking.

The activities are organised by subject. To achieve a good balance over the term, the booklet shows the minimum number of tasks to be completed for each subject.

*** <u>Maths</u>**
If there is no specific maths homework set by your teacher, please practise one of the maths objectives from the back of the booklet.

English: choose at least 5 tasks

- **Read daily!** Write a response to your reading:
  - Write a 'blurb' for the back cover
  - Describe a favourite character
  - Recount part of the story in your own way
  - Write a letter to a character
  - Write a book review
  - Read to someone and ask them to write a comment
- Write your own **story** set in space!
- Choose and summarise a real-life **newspaper article** about space
- Write a space **poem**
- Create a poster about how to use **punctuation** properly! Decide which punctuation will challenge you
- Write a short **report** entitled 'Being an astronaut'
- Write a **glossary** of space-related topic words
- Create a set of written **instructions** to teach an alien visitor how to…*you decide!*

Science: choose at least 2 tasks

- Find out all about the **moon landings** and present your findings
- Create **a fact page** to **compare the planets** using sub-headings like: *Size, Appearance, Atmosphere, Distance from Earth, Gas or rock, Number of moons, Time to orbit the sun.*
- Who was **Galileo**? What were his main scientific achievements to do with space?

Magnets and Forces

If you have a toy magnet at home, find out which materials and objects are **attracted** to the magnet and which are not. Record your findings.

Invent a new machine or gadget that uses **magnets** for a useful purpose! Draw and label your design. Explain what it does.

History: choose at least 1 task

- Create a **timeline** to show important achievements in space travel
- What was the 'Space Race'? Which two countries were involved? Present your findings
- Who was the first person to **walk on the moon**? Find out about this amazing person!
- Find out about the **'Curiosity Rover'** and its mission to Mars

Geography: choose at least 1 task

- Find out which **counties** border East and West Sussex. You could label them on a map
- Copy or trace a simple outline of the UK and label 6 **cities** on it. Write one fact about each city!
- Create your own wordsearch containing names of some **countries of the European Union!**

Art / Design and Technology: choose at least 1 task

- Create your own **emblem or space logo**. Explain your design
- Design a suitable **meal for an astronaut** and explain your choices! (Remember: there is no gravity to keep things on a plate so you need to think carefully about what won't make a mess!)
- Draw and name **your own planet** and describe its key features

****A maths activity should be completed every week****
(refer to the introduction in this booklet)

Maths: Year 3 Key Objectives

Number and Place Value:

- count from 0 in multiples of 4, 8, 50 and 100
- find 10 or 100 more or less than a given number
- compare and order numbers up to 1000
- read and write numbers up to 1000 in digits and in words

Addition and subtraction:

Add and subtract numbers mentally, including:

- a three-digit number and ones
- a three-digit number and tens
- a three-digit number and hundreds
- Add and subtract numbers with up to three digits
- solve missing number problems

Multiplication and division

- Know the 3, 4 and 8 times tables
- Know the division facts for these tables
- Use times table knowledge to multiply a two-digit number by a single digit number e.g. 19 x 4 is (10 x 4) plus (9 x 4)

Fractions

- Count up and down in TENTHS
- Find a fraction of a set of objects e.g. ¼ of 20 sweets
- Recognise equivalent fractions in shapes e.g. $\frac{1}{2} = \frac{2}{4}$ of a pizza

Measurement

- Measure perimeter of 2D shapes (with a ruler OR given the measurement of one or more sides)
- Add and subtract money, calculating the change
- Know the Roman Numerals from I to XII (1 to 12)
- Tell and write the time in 12 and 24 hour clock format
- Know the number of seconds in a minute and the number of days in each month, year and leap year

Geometry

- Recognise 3D shapes in different positions
- Identify right angles
- Identify right angles in quarter, half and three-quarter turns
- Identify horizontal and vertical lines
- Identify perpendicular and parallel lines

Statistics

- Understand and present data using bar charts, pictograms and tables