**Autumn 1- Year 5**

**Homework Assignments**

You **must** choose 3 maths and 3 topic homework assignments to complete in your homework log book. Homework should be brought in on **Thursday 22 October 2020**. If you want to do extra – that's great!

## Maths

Choose 3 to complete

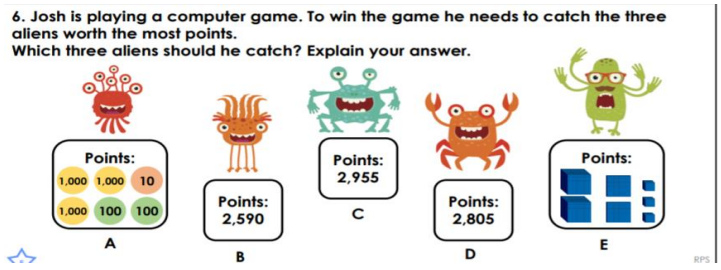
Choose either the Green Challenge or the Yellow Challenge (or you can do both if you wish!)

### Number and Place Value

Green Challenge:

The start number is 8.45 and the end number is -7. There are 10 numbers in between. Create a chain by adding, subtracting, multiplying or dividing to get from one end of the chain to the other.

Yellow Challenge:

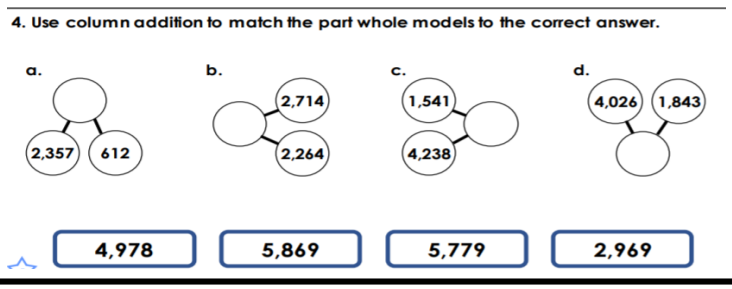



### Calculations

Green Challenge: **Rice on a chess board**

A king placed 1 grain of rice on the first square of a chessboard. On the next square he placed double the amount. He then continued to double the grains of rice on each new square. Can you calculate how many grains of rice will be placed on the 12th square on the chess board? ***Show your working out.***

Yellow Challenge:




### Time

Green Challenge:

A rocket travels 10,000 kilometres per hour in space.

- How far does it travel in 8 and a quarter hours?
- How many metres per second does it travel?
- For far does it travel in 324000 seconds in metres and kilometres?

## Topic

Choose 3 to complete

### Science

**All about astronauts:**

Find out:

- What training do astronauts have to do?
- How do astronauts keep safe when travelling into space?
- Why do they have to be careful?
- How do they keep healthy in space?

### Design Technology

Design a new planet:

- What does it look like?
- What is it made off? (gases etc.)
- How big is it compared to earth?
- How close is it to the sun?
- Is there any life on your planet?

Create a 2D diagram of your planet with clear labels.

**Extra Challenge:** Can you create a 3D model of your planet?

### Art

**Planet Poster:**

Design a poster based on the planet you focused on in class, encouraging people to visit your planet. Your poster should have:

- A catchy title which includes your planet's name

Yellow Challenge:

9. Pilot Pete needs to get to the airport for 20:02. The train journey is 38 minutes long and it will take 19 minutes to walk from the station to the airport.

| Train times | |
|---|---|
| A. | 19:00 |
| B. | 19:05 |
| C. | 19:07 |


Is Pilot Pete correct? Explain your answer.

- The things to see and do on your planet (use your imagination!)
- How people can get to your planet
- The cost of a trip to your planet

## Measures

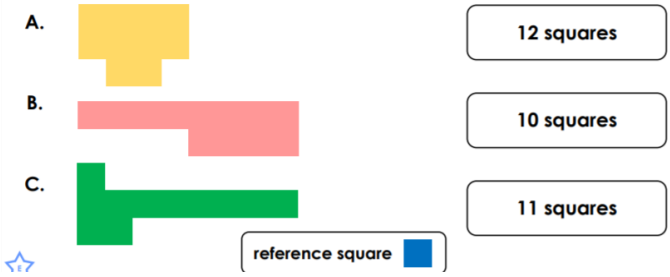
Green Challenge: **Area and perimeter**

Using rectangles:

- Draw an 'L' shape that that an area of 24cm2
- Draw a 'T' shape with an area of 36cm2

Yellow Challenge: **Area**

5. Match the shape to the correct area using the square as a reference.




## Computing

**Please ask a parent to sign you up on:**
https://create.kahoot.it/auth/register as a student.
Follow the instructions for creating a Kahoot and create a quiz about space using your knowledge from your learning so far this term. We will then carry out your quiz in class so be ready to be a quiz host!


**Reading**
Please read your home-reading book at least 3 times a week, either with an adult or by yourself – don't forget to keep a note of how much you read in your home-reading record book.