



# Grade 5 Homework

## Term 4 2015: Week 3

### Science - Shadow Animation

Remember the video we watched in class with the wooden statue creating different shadows? Now it is your turn to create a shadow animation using your 'Stop Motion' app.

You will need a light source and an object that will create a shadow. Take photos of the different sized and shaped shadows as you move your object. Insert them into Stop Motion to create your very own shadow animation.

Visit your grade blog for the wooden statue video if you need some inspiration.

Be creative! Good luck!

### Maths- Problem Solving from Mathletics

**Solve the 'Leftovers' problem below. Think about all of the different ways you can solve problems: draw a table, a picture, work backwards and trial and error!  
Show all of your working out in your homework book.**

#### Leftovers

You have some counters.

You put them into groups of 3, and there is 1 counter left over.

If you put THE SAME counters into groups of 4, there are 3 counters left over.

- How many counters could you have?
- How many different ways can you find to do this?
- How many counters might you have had if the total number of counters was more than 50?

List as many possibilities as you can!

### Mission to Mars Base - Layered Book: Earth Vs Mars

Next week, we begin our Mission to Mars Base project - to get the ball rolling, we would like you to complete the first activity. You will make a layered book, like the one in the image on the back of this sheet. The layered book will be used to compare Earth and Mars. Follow the instructions in this video to create your own layered book:

<https://www.youtube.com/watch?v=0Apb41jfZPo>

You will need to research the following information about Earth and Mars, and add it to your layered book:

#### **Size**

#### **Planetary order from Sun**

#### **Atmosphere**

#### **Temperature (range & average)**

#### **Length of Day**

#### **Length of Year**

#### **Seasons**

We are looking forward to adding this first part to the overall project!

### Reminders

- ★Reading Diaries due each Friday
- ★iPad must be backed up, software up to date & have all school apps
- ★Wednesday 28th October: School Photos
- ★Thursday 29th October and Friday 30th October : Leadership afternoon at school
- ★Don't forget to keep collecting your Walkathon sponsorship money!

# Earth vs Mars



Mars is about  
 $\frac{1}{2}$  the size of  
Earth

Atmosphere

Atmosphere

Temperature

Temperature

how long is a  
Day?

how long is a  
Day?