Your Assignment - to research rovers, design a rover using the Tinkercad program, and create a video tutorial showing how you made the rover in a group of 3.

Part 1 - Collaborative Research - 3 classes

Collaborate together using a google doc to curate all important information about mars rovers. This is the brainstorming and learning portion of the project, where teamwork, participation and leadership are asked of all students. Possible items in the shared google doc include, but are not limited to;

- pictures
- parts and components (camera, solar panels, battery, wheel type)
- interesting facts/important information
- Example tutorials
- Helpful tinkercad information
- Ideas and decisions about groups mars rover design
- List of parts to be made on tinkercad

Part 2 - Tinkercad and Rover creation - 4 classes

When the group has decided what the final design will look like and what components will be included the work and parts needs to be split into 3 equal parts, with each member responsible for ⅓ of the 3D design and build.

Part 3 - Video Tutorial - 4 classes

Once the parts have been completed on Tinkercad, you will create your own individual tutorial using the screencasting software Screencastify. The tutorial should only contain the ⅓ portion of the mars rover that you created on tinkercad, and will be marked on the quality of instructions, content, and audio video presentation as outlined in the rubric.

Your Tutorial should begin with a student created storyboard (Graphic from Mr. Ray) and then be created using these tips;

- Be specific - use measurements for increased accuracy
- Use descriptive language
- Show the finished product in advance
- Draw as you explain the steps
- Using pictures when possible
- Describe size and space
- Use colour and be creative
- Logical order of steps

Part 4 - Sharing out and Testing

And finally, our tutorials will be shared out for others to learn from while we test out our Rovers!