Inventions that Changed the World

**Skill Development**
- Creativity, collaboration, critical thinking, communication

**Technology**
- Identify and describe the Design Process.
- Follow the Design Process to create a Catapult Portfolio which shows evidence from beginning to end.
- Understand how to draw both isometric and orthographic drawings.
- Build a catapult which reduces workload.

**History**
- Read, create and extract information from a timeline.
- Describe when and where simple machines were first used and their impact on past societies.

**Mathematics**
- Calculate Probability.
- Calculate mass and volume.
- Calculate time.
- Learn how to tally.

**Science**
- Describe and identify the different types of forces acting on everyday situations.
- Describe simple machines and explain how they make work easier.
- Case study on scientist Leonardo Da Vinci.
- Calculate force using scientific equipment.

**Product**

Students must build a Catapult from scratch. Their machine must be able to project an object at least 5 metres.

Students will produce a Catapult Portfolio to accompany the catapult they build. This portfolio must show evidence of their planning from beginning to end.
Project Requirements…

During Inventions That Changed the World, students will require the following equipment:

- 1 x 128 page exercise – Not spiral bound
- 1 x display folder
- pencil sharpener
- 2 x HB pencils
- blue, black and red pens
- Eraser
- 30cm ruler
- Scissors
- Coloured pencils
- Glue stick
- Highlighter

During this project the boys must be in fully enclosed leather school shoes, as per DEC requirements

Assessment…

Assessment during Inventions That Changed the World is ongoing. Assessment is based on, but not limited to, the following tasks:

- Built Catapult – drafts and final product – Technology (TAS), Science, Mathematics.
- Catapult Portfolio – drafts and final product – Technology (TAS).
- Present a prepared speech to an audience.

Dates to Remember….

- Hook Event – the first day of the project – Term 2, Week 1
- Exhibition Day – Term 2, Week 10 – all parents invited to attend. Note will be sent home closer to the day