



# Enrichment Homework

## Summer 2

**Year Group:** 7

**Subject:** Science

**Link to learning:** This half term, year 7 will look at forces and how they cause objects to move. They will focus on strain energy, which is a type of potential energy that is stored in a structural member as a result of elastic deformation.

**Task:** Create a catapult to transfer strain energy into kinetic energy

Instructions on how to do this can be found in the following link:

<https://science.discoveryplace.org/stay-at-home-science/diy-catapult>

In your books you will write up how you conducted your investigation. This will include:

- Method - step by step instruction of how you built the catapult (with photos of each step.
- Safety precautions you need to consider.
- Conclusion - what caused the catapult to work?
- Evaluation - How did the catapult perform - what could you do differently next time?

**Expectations:**

- Clear instructions of how to build the catapult with clear photos of key processes.
- Neat, legible handwriting.
- Clear explanation of why the catapult worked using scientific terms.
- Understanding of how to improve the design clearly explained.

**Due date:**

Monday 18th July  
2022