

Monday 18th January

LI: To carry out a scientific test.



Castles were built to protect the country and land. The walls were built out of bricks or stone. You are going to carry out a scientific test to see what object will be able to knock a wall down. The object when you throw it is called a projectile.

For this scientific test you will need the following:

- *Up to 30 small wooden blocks/some empty boxes/lego blocks*
- *Pencil*
- *5 different balls that you can throw at your wall that are roughly the same size such as: paper, foil, playdough, tennis ball, plastic ball, beanbag*
- *Weighing scales*
- *Pencil*
- *Recording sheet as below.*

When you have gathered all of your materials you need to record all of the names of each ball on the recording sheet.

Then, weigh each of the balls and record the weight on your recording sheet.

After that you need to make a PREDICTION. This is you making a scientific guess at which ball is going to be able to cause the most damage of your wall and explain why you think this.

Take photos of your scientific test to share with your teachers.



Method

- 1 Build a castle wall from the small wooden blocks.
- 2 Weigh one projectile and record the measurement on the recording sheet.
- 3 Stand 1 m away from the castle wall. Take the first projectile and throw it underarm at the castle wall.
- 4 Throw the same projectile four more times at the castle wall. Make sure that the projectile is thrown the same way each time.
- 5 Count how many blocks have been knocked off the castle wall altogether and record this number on the recording sheet.
- 6 Repeat steps 1–5 until every projectile has been used.

Castle Projectile Recording sheet

I predict that the _____ projectile will cause the most damage because _____

Projectile	Weight of projectile	Number of blocks knocked off

Results- Which projectile caused the most damage? Explain why.
