

## Spread the Plague

Word has it that the grade 8's are ready to trap you within your castle walls. The rumor is that they will do so by building trebuchets that will be used to launch dead rats that are infested with the plague over your castle walls. If they succeed, you will surely succumb to your death within a few hours.

The only way you can stay alive is if you launch the disease first. To do so, you will need to build a trebuchet. After you have tested it to perfection, you will go into a head-to-head battle against the best from grade 8.

**Here are the topics you must discuss in great detail:**

1. Friction (100XP)
2. Joints (100XP)
3. Stability (100XP)
4. What types of forces your structure resists.(100XP)
5. How your structure resists these forces. (100XP)

**Reward**: 500XP plus

Furthest launch---10,000 gold per person

2<sup>nd</sup> place: 5000 gold per person

3<sup>rd</sup> place: 1000 gold per person