



# EPPro8 Challenge

*Engineer Problem Solve Innovate*

## Robotic Guard Dog – Teacher's Notes

### Summary

Teams will build a dog-like shape with a tail that wags from side-to-side and jaws that open and shut. The dog will automatically bark and wag its tail when an intruder is detected.

### Principles

Structure, Mechanics, Electronics.

### Extra Equipment

Rubberbands (size 64).

Paper / Card.

Pens.

### What to Aim For

See the “Getting the Most from your Equipment” document for guidelines on what to aim for from these challenges.

It is important that the jaws and tail are driven by a rope being pulled up and down, as this will make the later parts of the challenge easier.

### Our Solution

