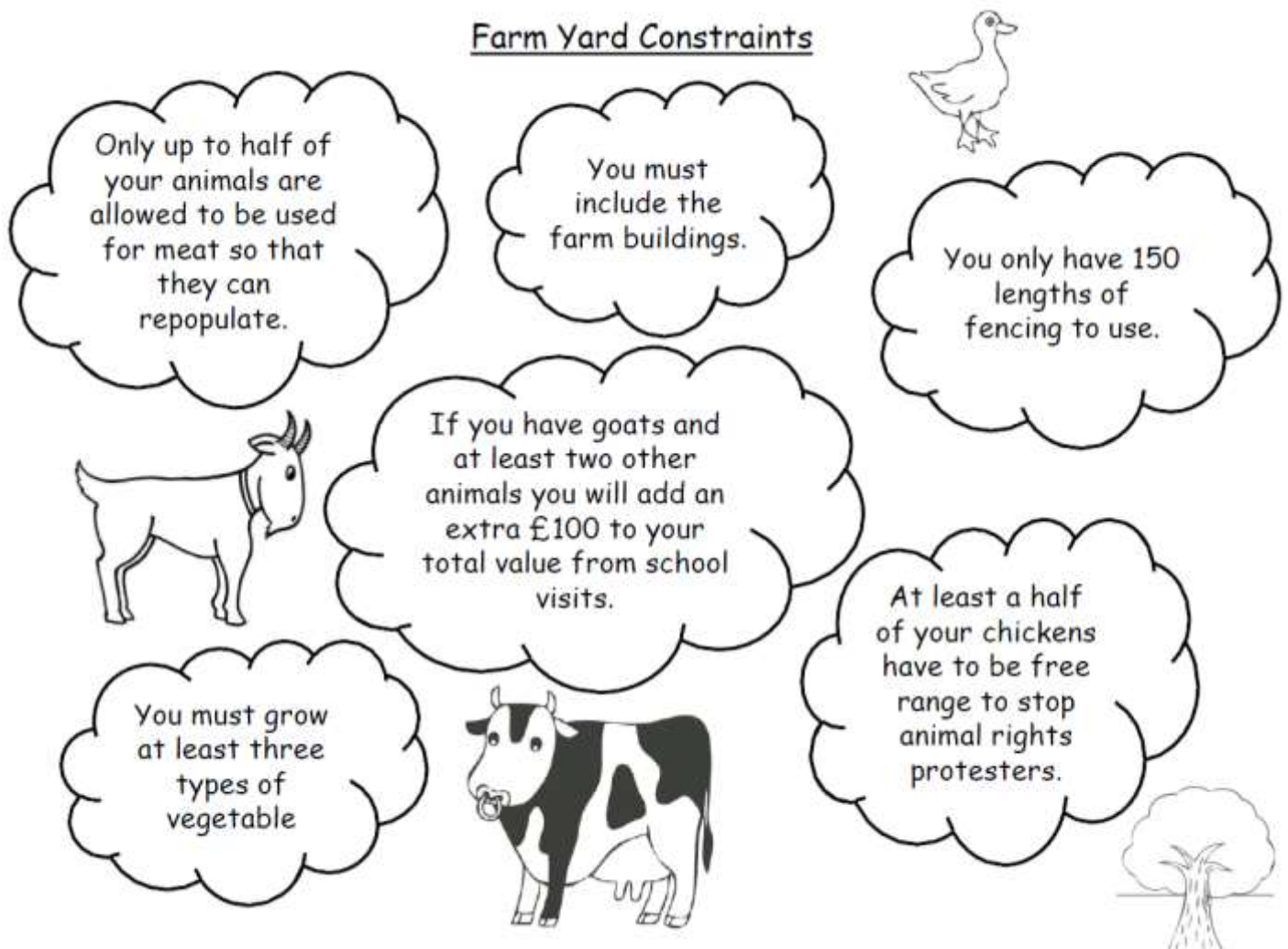


Mathematics Summer Project

Your challenge is to design a farm. There are lots of things a farm needs, like a farmhouse, barns and of course animals! However, there are some limitations as you only have a set amount of farm yard space, which will be your squared paper, and the animals will need space to graze. You need to divide up the space into sections for the different buildings and animals. These need to be labelled and would look even better if they were in different colours. Any animals must have a fence around them otherwise they will eat all the vegetables, but you can assume that there is a fence around the outside of the farm yard space. The following constraints need to be followed:

Farm Yard Constraints



Each square of your farmyard will have a value that it will add or take away from the farm depending on what you put in it. For example, each square of carrots you grow will add £10 to your total value. You want to make your farmyard have the biggest value. Look at the farm yard values sheet to see how much money each aspect costs or makes.

You need to complete the farmyard layout on the squared paper. On a separate sheet, we would like to any calculations you have done and details about your farmyard. It would be great if you could give reasons for your choices and show the overall value of your farm.

