

Functional Skills

Design a...

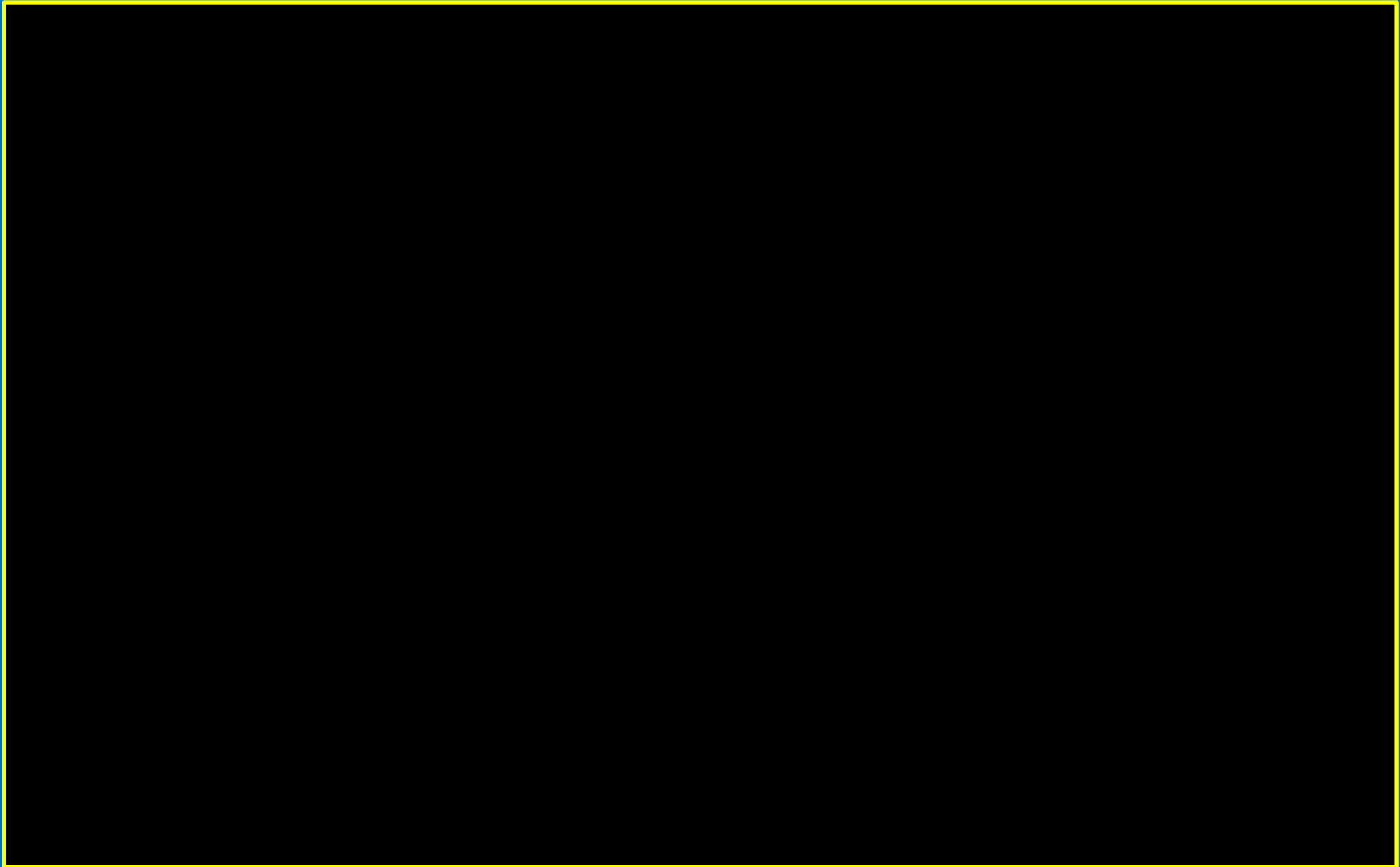
Farm

LO: Think about perimeter and area in context



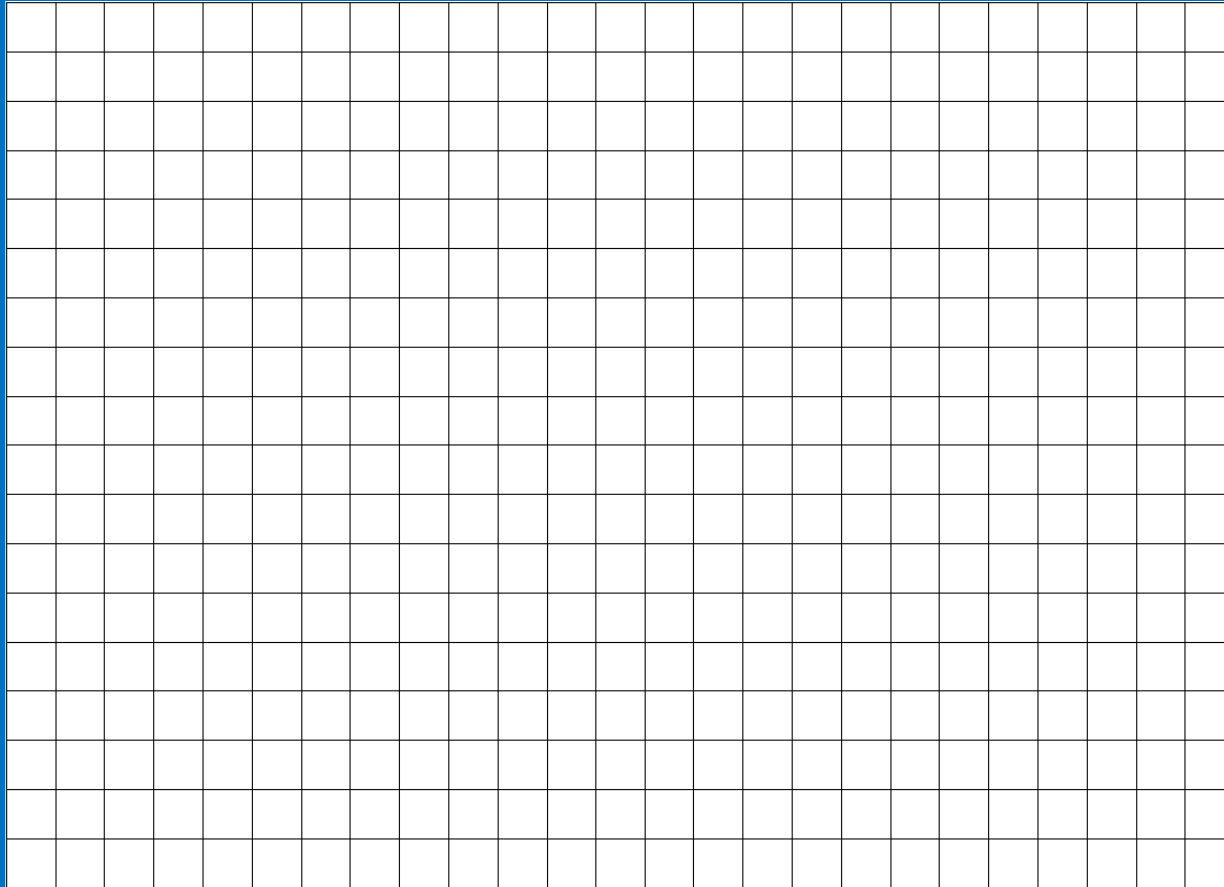
LO: Think about perimeter and area in context

If you were to build your own farm, what would you need on it?



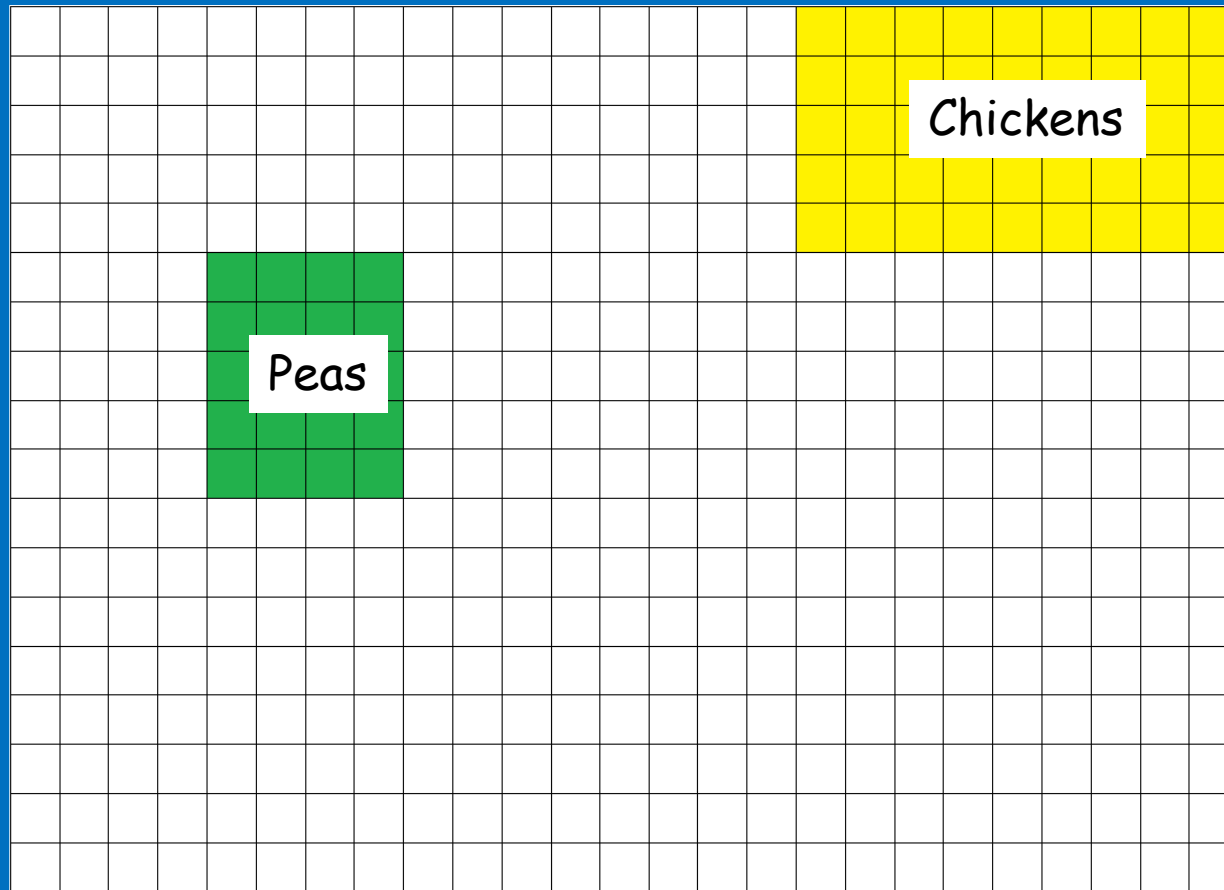
LO: Think about perimeter and area in context

Your task is to design a farm.



You will be given a sheet of A4 square paper. This will be your farm yard space.

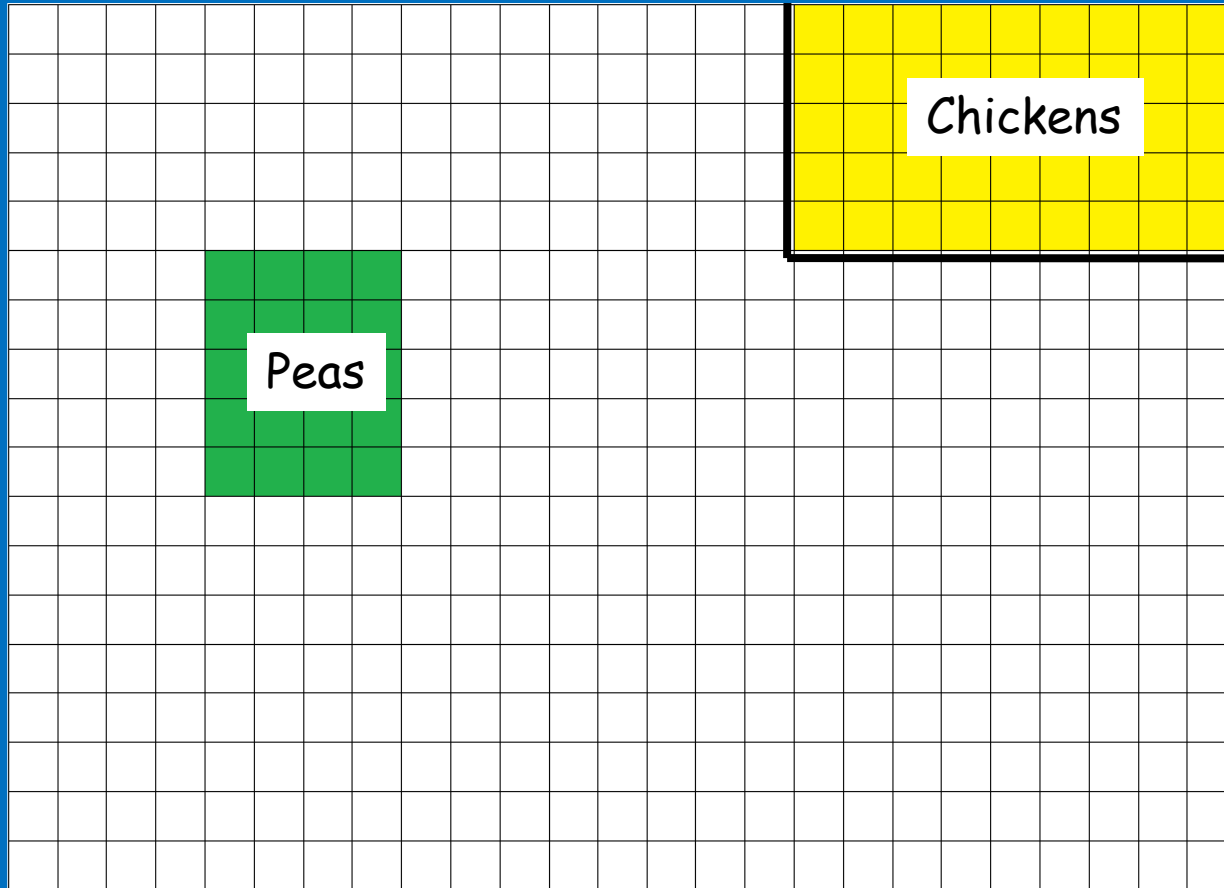
LO: Think about perimeter and area in context



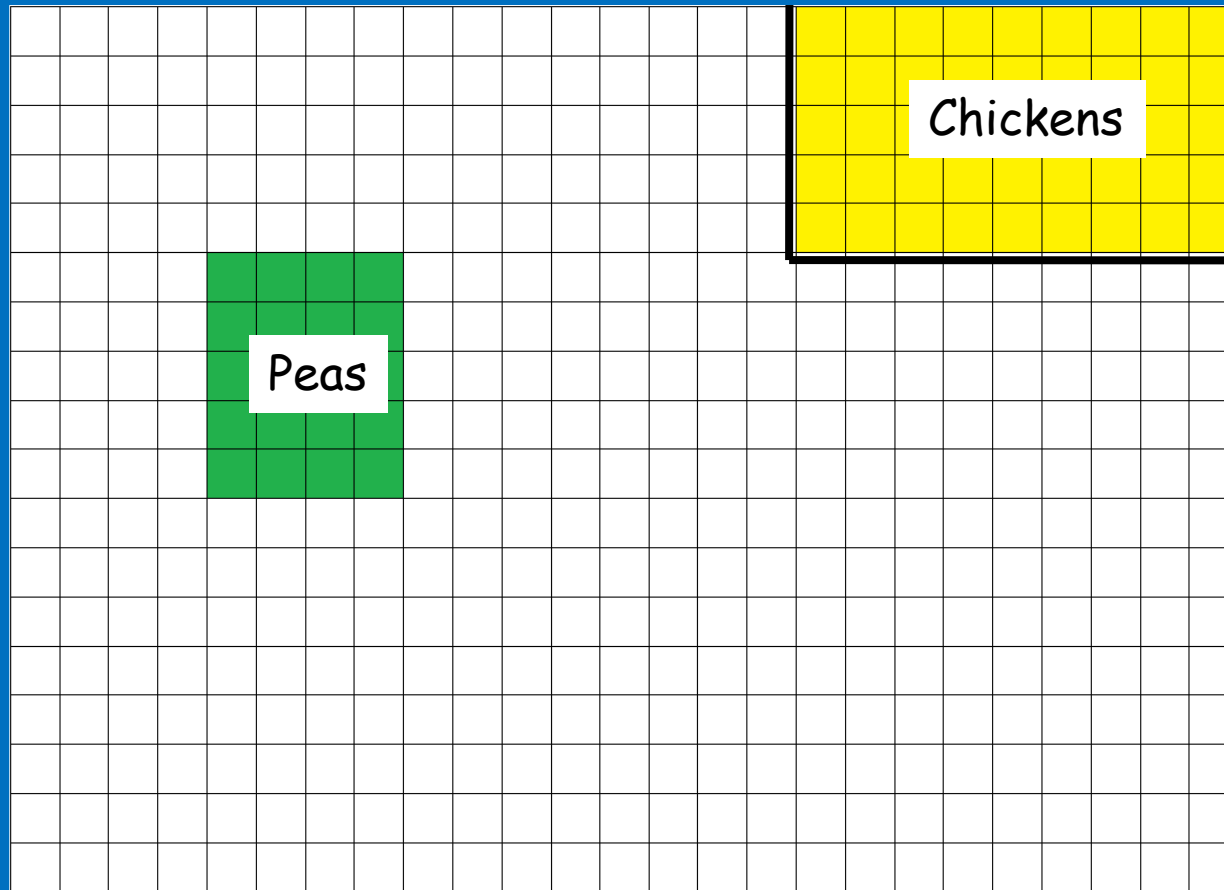
You will have to divide up the paper into the sections you want and add labels and a bit of colour.

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If you have animals then you will need to fence them in.



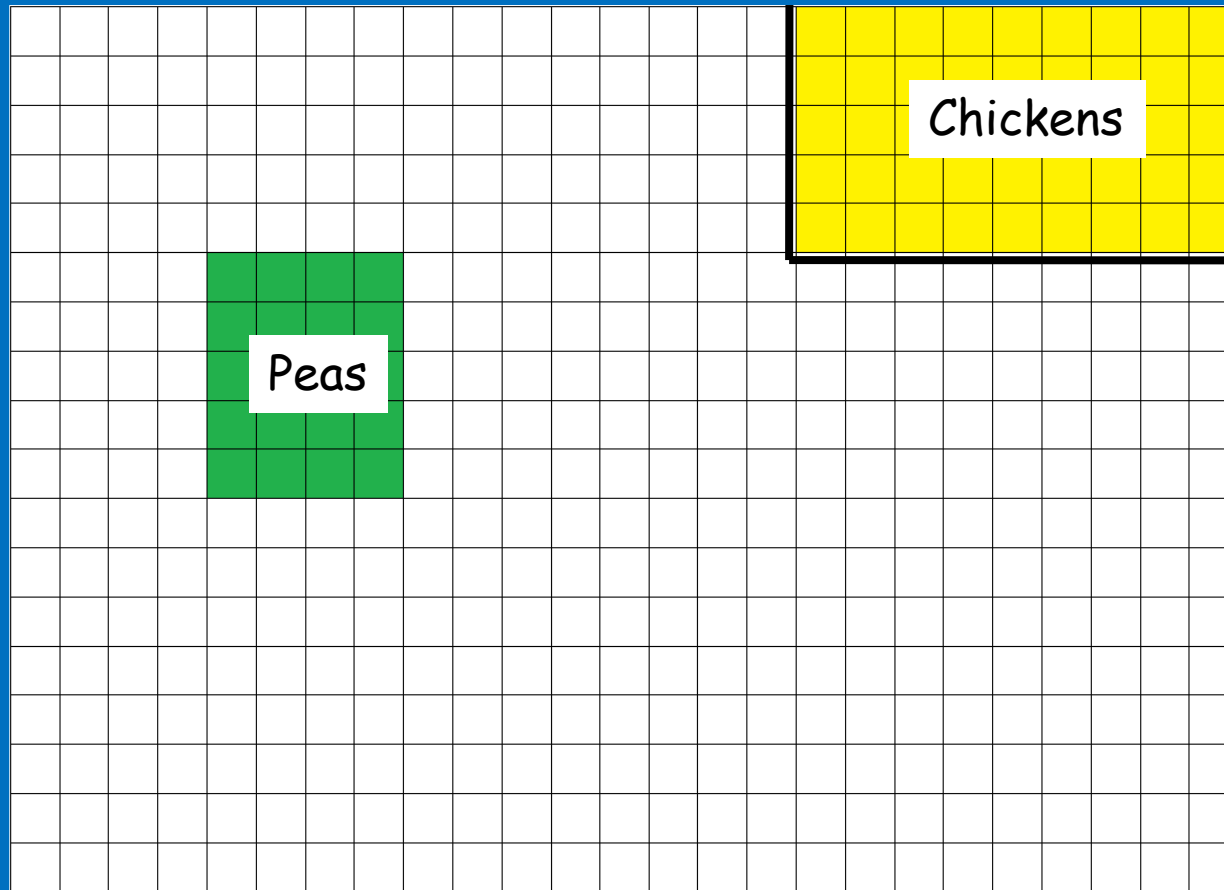
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You can assume there is already a fence around the farm.

LO: Think about perimeter and area in context

There is limit on the fencing you have available. You can only draw on 150 of the 1cm lines



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Each square will have a value that it will add or take away from the farm depending on what you put on it.

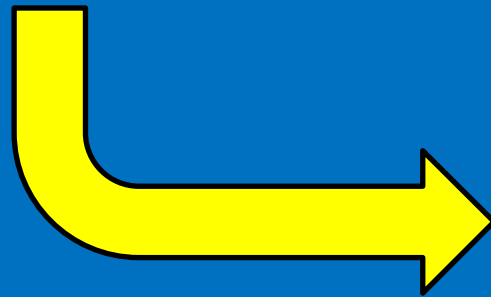
For example, each square of carrots you grow will add £10 to your total value.










You want to maximise the total value of your farm.

LO: Think about perimeter and area in context

You will be given this sheet that tells you how much value you get for each animal square or vegetable square etc.



Farm Yard Values

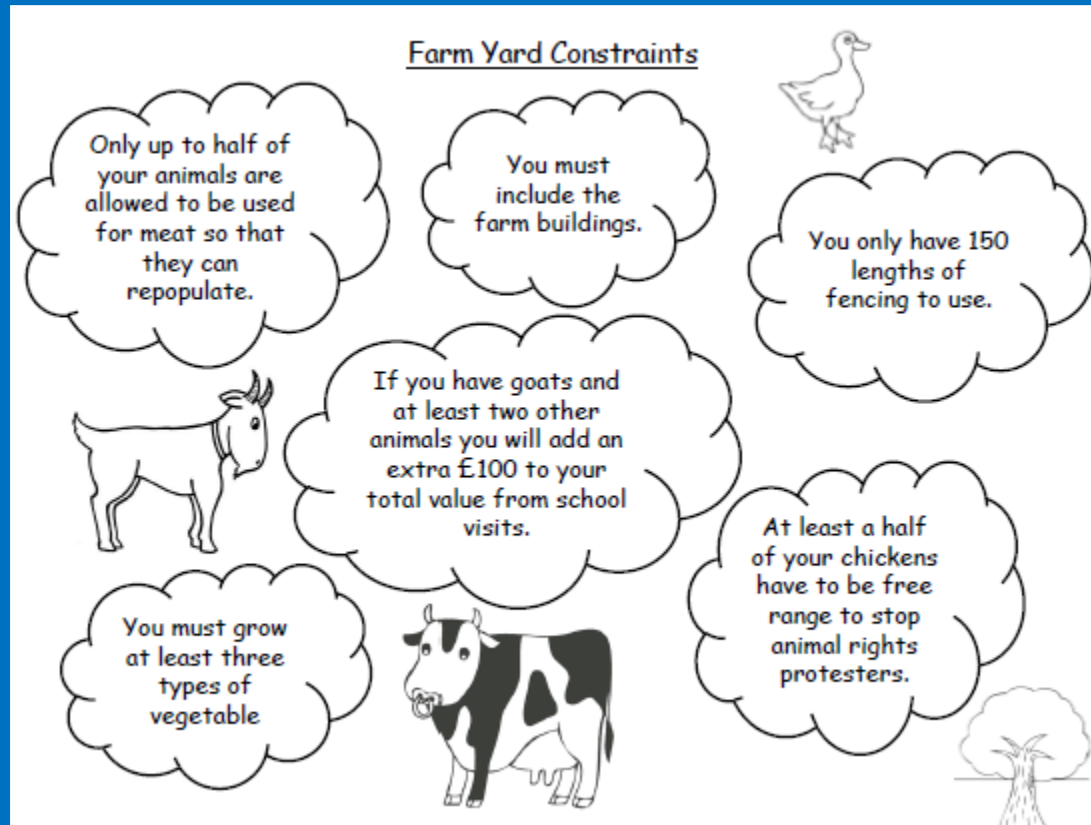
 <p>Potatoes</p>	When planting potatoes you will need to use at least 10 squares to make it worth while. You can only sell enough potatoes for 100.	£12 for each square
 <p>Carrots</p>	When planting carrots you will need to use at least 10 squares to make it worth while. You can only sell enough carrots for 100.	£10 for each square
 <p>Parsnips</p>	When planting parsnips you will need to use at least 10 squares to make it worth while. You can only sell enough parsnips for 100.	£11 for each square
 <p>Peas</p>	When planting peas you will need to use at least 10 squares to make it worth while. You can only sell enough peas for 100 squares.	£10 for each square
 <p>Chickens</p>	You could have some squares for meat and some for eggs or all for just one of these. If you have chickens you need to cover at least 30 squares, but no more than 150 squares.	Free Range for Eggs: +£4 Free Range for Meat: +£6 Non-Free Range Eggs: +£6 Non-Free Range Meat: +9
 <p>Cows</p>	You can use cows to produce milk or meat. Cows need at least 50 squares. You can only have a maximum of 200 squares for cows.	Meat Value: £12 for each square Milk Value: £8 for each square
 <p>Ducks</p>	Half of all duck squares must be labelled as pond area. Ducks can be used for eggs or meat. You cannot have a pond bigger than 40 squares, but it needs to be at least 5 squares.	Egg Value: £5 for each square Meat Value: £8 for each square

There are a few constraints when building a farm.

You will be given a sheet with all the things you need to consider on it.

We will quickly go over a few of the main points.

Farm Yard Constraints



Only up to half of your animals are allowed to be used for meat so that they can repopulate.



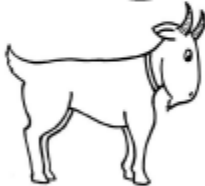

You must include the farm buildings.

You only have 150 lengths of fencing to use.

If you have goats and at least two other animals you will add an extra £100 to your total value from school visits.

At least a half of your chickens have to be free range to stop animal rights protesters.

You must grow at least three types of vegetable



- You must grow at least three types of vegetable.
- At least a half of your chickens have to be free range to stop animal rights protesters.
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- Only up to half of your animals are allowed to be used for meat so that they can repopulate.

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Once you have designed your farm you need to glue it on to an A3 piece of paper.

My Farm

<p>Animals</p> <p>Chickens FR Eggs: £6 x 38 squares =£228</p> <p>Cows Milk: £8 x 50 squares =£400</p> <p>Ducks Eggs: £5 x 60 squares =£300</p> <p>Sheep: £10 x 50 squares =£150</p> <p>Horses: £15 x 80 squares =£1200</p> <p>Goats: £2 x 52.5 squares =£105 (+£100 Schools)</p> <p>Total = £2483</p>		<p>Vegetables</p> <p>Potatoes: £12 x 100 squares =£1200</p> <p>Carrots: £10 x 18 squares =£180</p> <p>Parsnips: £11 x 100 squares =£1100</p> <p>Peas: £10 x 15 squares =£150</p> <p>Total = £2630</p> <p>Buildings</p> <p>Farm House: £0 x 11 squares =£0</p> <p>Sheds: -£10 x 10 squares =-£100</p> <p>Stables: -£8 x 5 squares =-£40</p> <p>Total = -£140</p>
<p>Total Farm Value = £2483 + £2630 - £140 = £4973</p>		

Around the outside your should add details about your different farm areas.