

Functional Skills- Designing a farm

Monday, 11 April 2016

Objective: Think about perimeter and area in context



LO: Think about perimeter and area in context

2 minute
brainstorm activity

Sheep

Cows

Fence

Car

Animals

Gates

Trailers

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

Farm house

Buildings

Food store

Crops

Goats

Fields

garden

Ducks

Pigs

Tractors

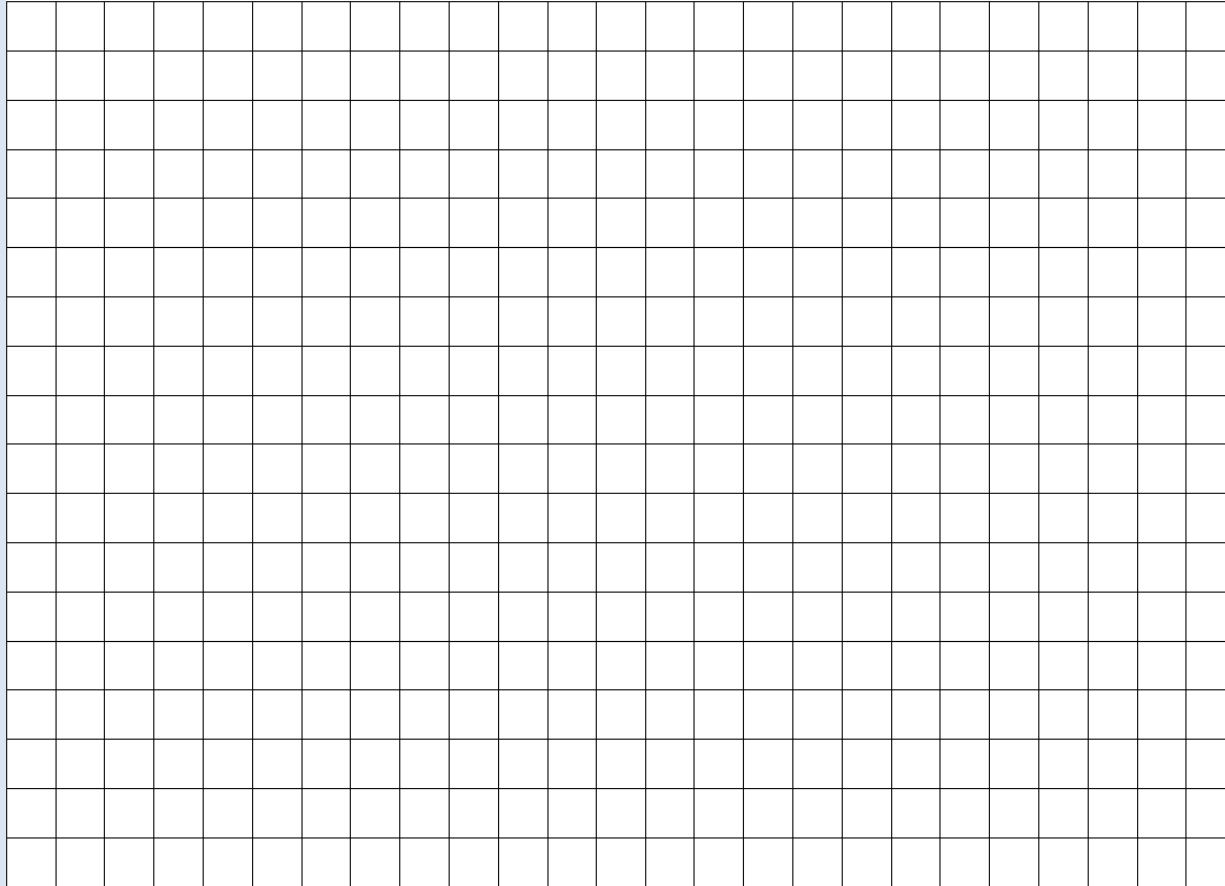
Wheelbarrows

Vegetable patch

Machinery

LO: Think about perimeter and area in context

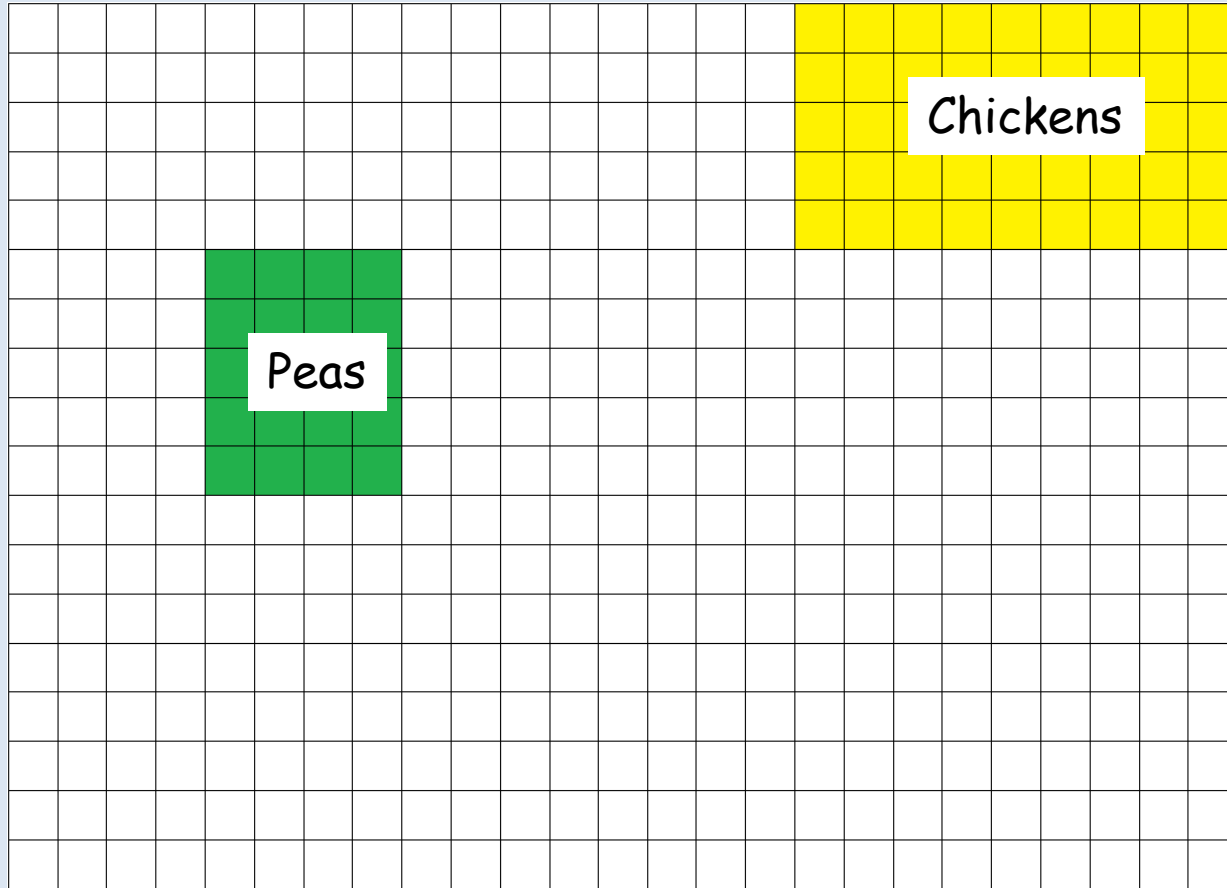
Your task is to design a farm.



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



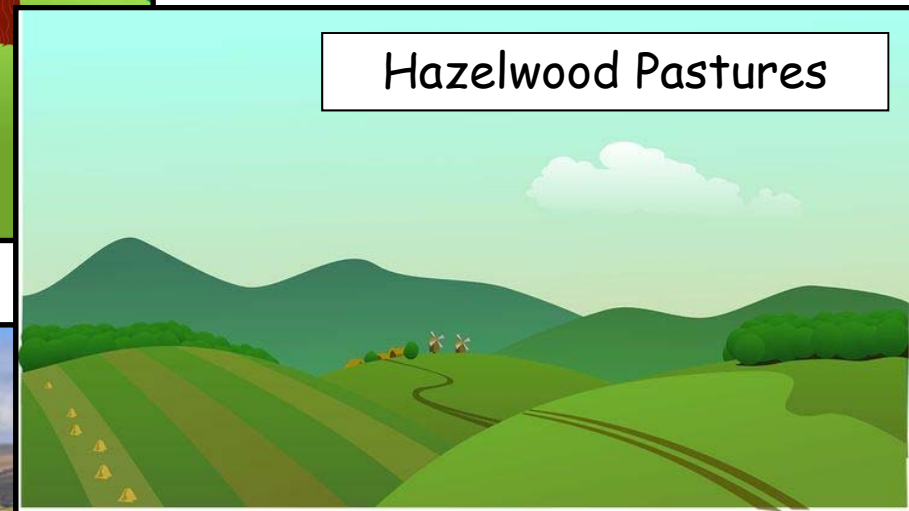
LO: Think about perimeter and area in context



You will have to divide up the paper into sections. Add labels, and colour.





LO: Think about perimeter and area in context

Different types of farms need to be built in one of three locations.
Your teacher will tell you where to build your farm, and what the requirements are.



LO: Think about perimeter and area in context



 <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

Arable Farm

Constraints

- You should include farm buildings.
- You might include paths, outbuildings for your machinery, and a farm shop. These will not add value to your farm but include them if you can.
- You must grow at least 3 different types of vegetables

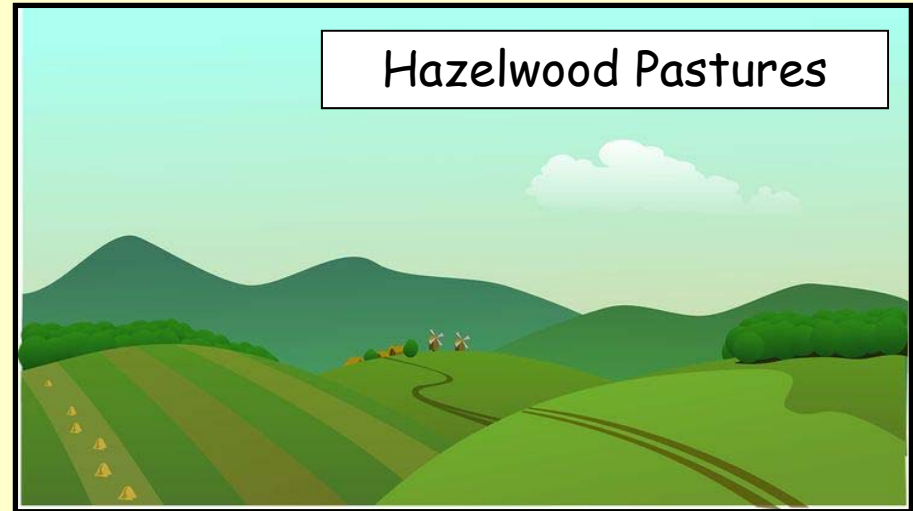
LO: Think about perimeter and area in context




Livestock Farm

Constraints

- You must include the farm buildings
- You might include paths, outbuildings, and a farm shop. These will not add value to your farm but include them if you can.
- Up to half of your animals can be used for meat (no more than half, so that they can reproduce)
- At least half of your chickens have to be free range to stop animal rights protesters.
- **You only have 150 lengths of fencing to use. You need to make sure your animals don't escape!**

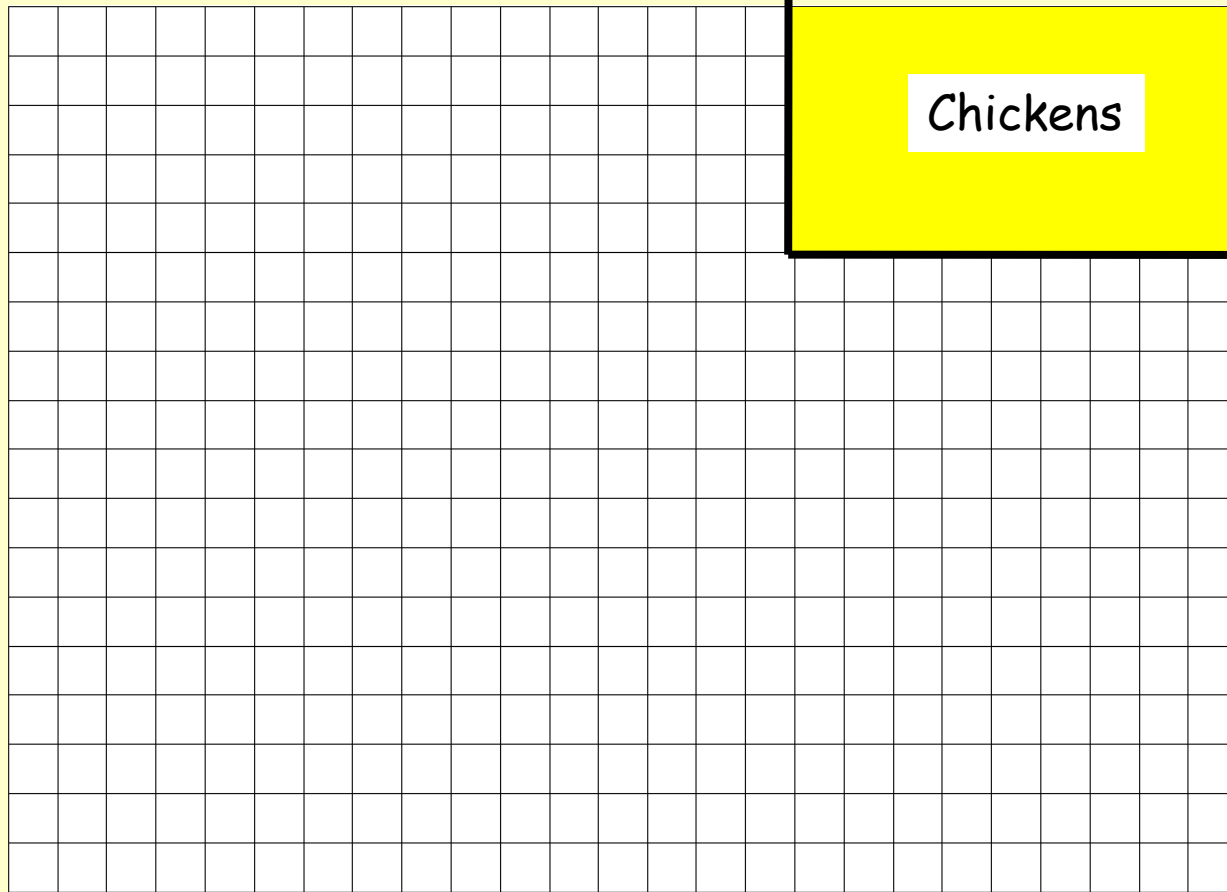
Hazelwood Pastures



 Chickens	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
 Cows	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
 Ducks	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

LO: Think about perimeter and area in context

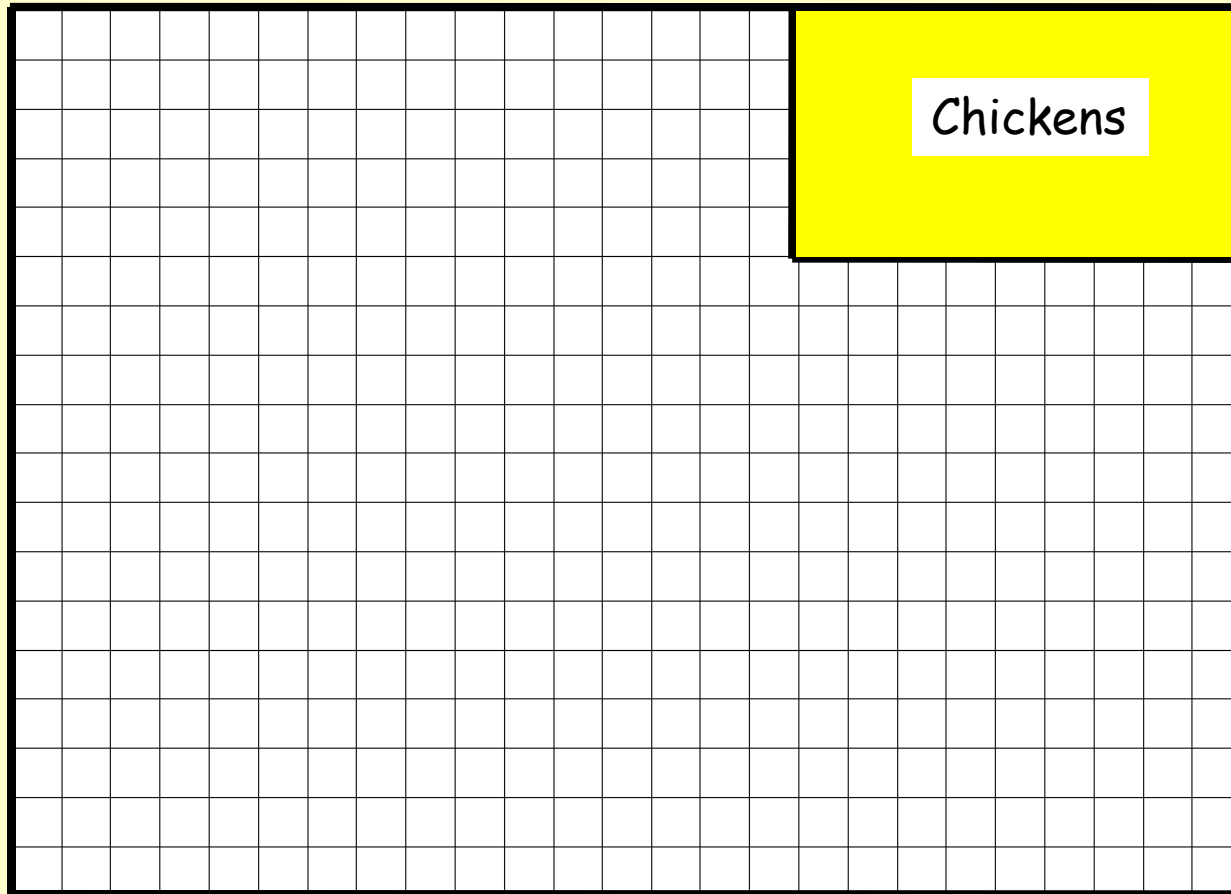
If you have animals then you will need to fence them in.



Chickens



LO: Think about perimeter and area in context

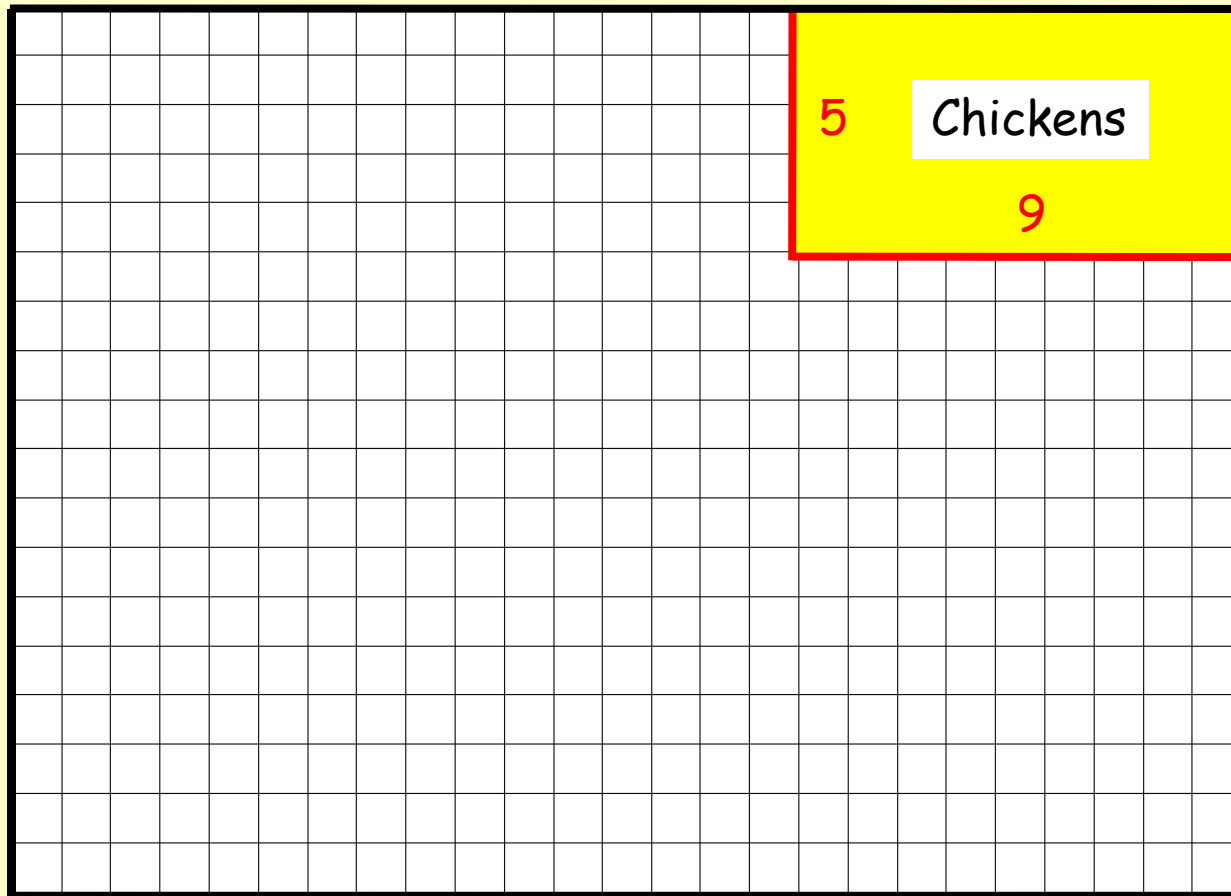


You can assume that there is already a fence around the farm.

LO: Think about perimeter and area in context

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

This does not include the fence around the farm



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Oak Valley Acres










Constraints

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- You must grow at least 3 different types of vegetables
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- At least half of your chickens have to be free range to stop animal rights protesters.
- You only have 150 lengths of fencing to use.

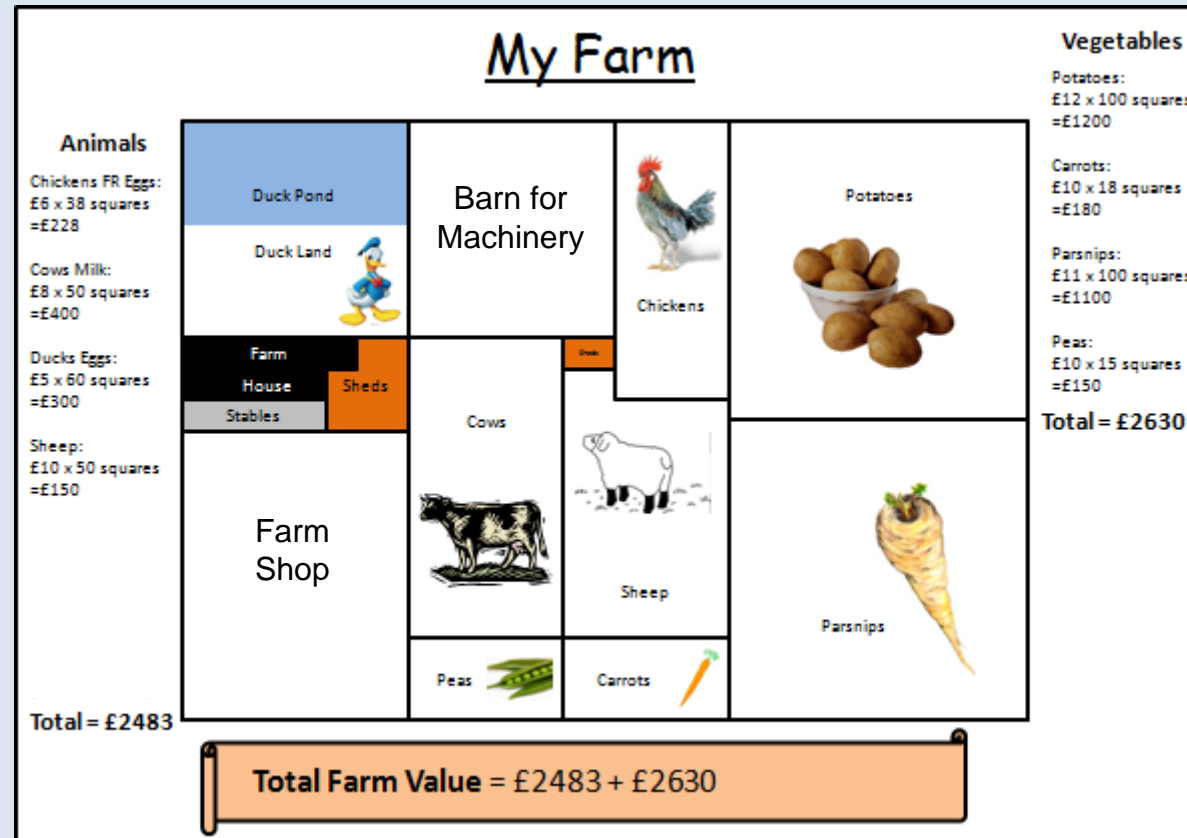
Arable and Livestock Farm

Farm Yard Values

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



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

Open your farm to the public!

Extension

Create an advert or leaflet to advertise your farm. Think about...

- The design - make it colourful.
Think of a logo, or slogan
- What needs to be on the advertisement
opening times, prices etc.
- What does your farm have to offer?
can you feed the ducks, or pick your own vegetables?
- What makes your farm unique?

