

Digimap for Schools

A Taste of Scotland

Organic ice cream production in Scotland

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Geography teaching resource

Primary



This is one of a series of teaching resources for use with Digimap for Schools. For more details about this service, visit <http://digimapforschools.edina.ac.uk>

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Digimap for Schools Geography Resources

These resources are a guide for teachers to use with the whole class or individual students as appropriate. Each activity has several ideas within it that you can tailor to suit your class.

Title: A Taste of Scotland

Level	Context	Location
Primary	Organic ice cream production in Galloway	Galloway, Scotland

Knowledge/skills	Locating places using given directions/using a key/adding markers and labels
Curriculum links (England)	Describe and understand key aspects of human geography, including: land use; economic activity, and the distribution of natural resources including food
Scottish Curriculum for Excellence	Social Studies Outcomes: People, Place and Environment 1-09a, 2-08a, 2-14a
Welsh Curriculum	Use maps, imagery and ICT to find and present locational information; measure, collect and record data through carrying out practical investigations using secondary sources

Activity

Investigating the features of a dairy farm producing ice cream and how lots of different factors are important for this to be a successful industry.

Introduction

Food production is a very important industry in Scotland. One in five people in Scotland working in manufacturing are in the food industry (Scottish Government 2013). The 'Cream o' Galloway' is a 340 hectare farm on the edge of a National Scenic Area in south-west Scotland, with 90 Ayrshire cows, a small Angus suckler herd and 500 ewes. The business includes ice cream production and tourism, with a family visitor centre and woodland (with nature trails) which welcomes over 70,000 visitors a year. Cream o' Galloway ice cream is sold across Great Britain. Using Digimap for Schools, pupils can investigate features of the setting and location of this farm and how far the product travels.

Main activity

There are three parts to this activity which can be spread out over more than one session.

Introduce the farm you are going to be talking about and the ice cream it produces using either their website or the short film about what they do. (See web links 1 and 2).

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There is also a background information sheet.

Part 1 – What a farmer needs to make ice cream

- Discuss with your class what the most important things are that a farmer needs to make good ice cream. Use the card sorting activity provided and the worksheet to record ideas about what a farmer might need and how these things are connected. Pupils could work in groups to sort the cards, decide which things are more important and how they might be connected.
- Cows are kept indoors during the winter months then are let outside into the fields again in the spring. Why is this? Do the pupils think the cows get excited about going outside again? Watch the video clip 'Cows out to grass' (see web link 3). Do they think happy, content cows produce better quality milk?

Part 2 – What can you find out about the farm from the map?

- **Locate and label the farm**

Ask the pupils to open Digimap for Schools and find the farm by using the postcode of the farm: DG7 2DR

When pupils find 'Rainton' ask them to add a marker. Ask them to open the Annotation toolbar select 'Add Marker' and click on the farm. Select font type, size (18) and colour and then select 'Place Label' and label the farm 'Cream o' Galloway'

- **Explore the farm – hand out**

Pupils should make the map fill the screen by using



Encourage them to explore the farm by zooming in as far as possible to the OS MasterMap® level (Highest detail) and finding all the items on the following hand-out and label them on the map

Ask them to describe the farm using what they have found out from the map. They could also choose the best map view of the farm and save it with a title and/or print it out.

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Here are some things you might discover at Cream o' Galloway Label on your map as you find them:



What is this feature on the map, left?
Clue 1: look at the black dot on the grey and use the map Key to find out what this means. Clue 2: it can be found approximately 300m SW of Rainton farm buildings.

The map extract above shows tracks. What activity do you think takes place here?



Paths – the left hand picture is the nature trail map from the website, why (and in what ways) does it look different to the real map in Digimap for Schools below?



Find the view and label where you think the following are:

- Visitor car park
- Pond
- Cras' nest viewing tower
- Grass and pasture
- Outdoor adventure playground
- Tube slide
- Indoor play barn

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Part 3 – how far does the ice cream travel from the farm?

'Local' food is usually defined as that supplied within a 30–50 mile radius of the source. Pupils can find this link from the website www.creamogalloway.co.uk/stockists and investigate where the ice cream is sold. Ask pupils to enter the first part of the farm's own postcode, DG7 and search within a 50 mile radius for stockists. Are there many outlets? What do the results tell you?

How far does the ice cream travel and what kinds of shops stock it? Do pupils think they sell it in a shop near them? Ask them to enter the first part of the school postcode to find the nearest supplier. If there is nothing within two miles of the school postcode, gradually try a wider area using the search tool.

Where can we buy it? When you find the nearest shop or stockist, make a note of the postcode. Using this postcode and that of your school and the farm at DG7 2DR add three markers to the map and label 'Our nearest shop', 'Cream o' Galloway' and 'Our School'

Measure the distance from the farm to the shop by using the Measuring tool 'Measure distance'. Click on the farm and drag the mouse to your nearest supplier in a straight line (measuring 'as the crow flies'). See the measurement in kilometres or miles.

Ask pupils to explain why people would want to buy this ice cream and how good the location of the farm is for producing dairy products, hosting a visitor centre and distributing its goods.

Taking it further

- Find out what other foods come from Scotland. Create a map with locations and labels to show the different kinds of food and drink and where they are located.
- Investigate 'organic' farming and whether you think this is a good idea or not for farmers, customers and the environment.

Web links

1. Ice cream outlet www.creamogalloway.co.uk/
2. Short film about Cream o' Galloway <http://programmes.stv.tv/five-thirty-show/top-stories/90906-cream-o-galloway/>
3. Cows out to Grass video <http://www.youtube.com/watch?v=uQadjA7ztrM&list=UUDZKy0sgzbGTSGSvt5AJm5g&index=10&feature=plcp> Safeshare tv link <http://www.safeshare.tv/w/GiVdbZRFkH> (better for schools using Youtube links)
4. Cream o' Galloway ice-cream stockists <http://www.creamogalloway.co.uk/stockists>
5. Soil Association www.soilassociation.org/
6. Scottish Government information about the food and drink industry <http://www.scotland.gov.uk/Topics/Business-Industry/Food-Industry>
7. Cream o' Galloway Flickr images <http://www.flickr.com/photos/creamogalloway/>

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Cream o' Galloway information sheet

Cream o' Galloway, Rainton, Gatehouse of Fleet, Castle Douglas Grid Reference: DG7 2DR.

www.creamogalloway.co.uk



Source: scotsman.com



Source: creamogalloway.co.uk



Source: creamogalloway.co.uk

David explains how he and Wilma went into the ice cream and tourism business in the 1990s because the farm was not making much money. The plan was to *diversify* which meant finding other ways to make use of the resources from the farm.

In the early 1990s financial pressures at Rainton Farm, as in many small scale farms across the UK, encouraged us to diversify. We decided to convert an old farm building into an ice cream factory and try our hand at turning our milk into luxury ice cream and after two years of research, development, building and copious sampling we launched our maiden range at the 1994 Royal Highland Show. Back then we only had eight flavours, but the response was so positive we knew we had a success on our hands.

One of the nicest things about ice cream is that the whole family can enjoy it and spend some quality time enjoying it, and so we opened a small visitor centre – just a few picnic tables, a couple of swings and somewhere to buy ice cream. That was enough to attract 7,000 visitors in 1994 which took us by surprise, so we thought we'd better expand a little and regular visitors will have seen how our visitor centre has grown and developed each year.

As time has gone by our adventure playground has developed into an outstanding attraction with a 50 foot viewing tower and Scotland's only 3D maze; our nature trails have gone from being short trails through grassy fields to being well-covered routes past beautiful nature ponds, through acres of newly planted woodland, past hedgerows and pastureland. The visitor centre now includes a tea room and restaurant, a gift-shop and the all-important choice of 30 ice cream flavours and our tours give visitors the opportunity to see behind the scenes of every aspect of our business. We are now delighted to welcome over 70,000 visitors through our doors each year, making us one of the most visited attractions in the south of Scotland.

At every step of the way we have tried to match growth with sustainability, and we don't launch any new projects without carefully considering the impact on the environment and the local area. This commitment to the landscape we are in has been recognised over the years with a number of environmental awards which we display proudly next to those we have won for our food, our farming and even our ice cream packaging design!

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The Farmer Needs ...

Name _____

Which of these things do you think a dairy farmer needs most to successfully make ice cream? Are some more important than others?

Cows to produce milk

Land to graze cows and to grow feed

Grass for cows to eat

Buildings to milk cows and store machinery and feed

Water to run and clean the machines,

Visitor Centre to make some extra money and advertise your product

Customers and shops to sell your product

Good **access**: roads to bring things to and from the farm

The right **climate** and **weather** to help grass grow

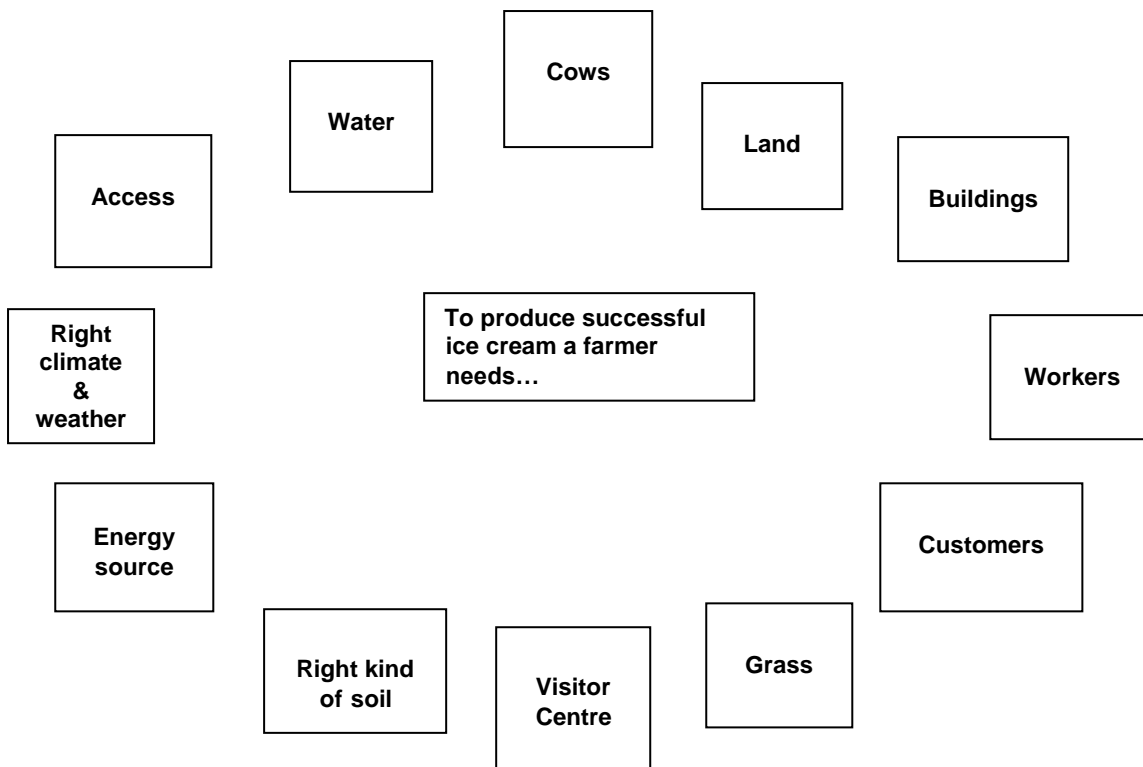
The right kind of **soil** to help grass grow well

Workers to help on the farm

Energy sources to power equipment and keep ice cream cold



Draw lines to show which things might be connected to other things and say why. What other things can you think of?



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<p>Cows to produce milk</p>	<p>Land to graze cows and to grow feed</p>	<p>Visitor Centre to make some extra money and advertise your product</p>	<p>The right kind of soil to help grass grow well</p>
<p>Grass for cows to eat</p>	<p>Water to run and clean the machines</p>	<p>Good access: roads to bring things to and from the farm</p>	<p>Workers to help on the farm</p>
<p>Buildings to milk cows and store machinery and feed</p>	<p>Customers and shops to sell your product</p>	<p>The right climate and weather to help grass grow</p>	<p>Energy sources to power equipment and keep ice cream cold</p>