

Title: 3 eggs

Subject Area: Science (links with geography)

Key Stage 2

NC link: Sc2b, 5d,e.

Learning Objective:

- Children compare and contrast the three different types of egg.
- Children consider external influences such as transport and pollution as well as nutrition.

Resources:

- 3 eggs per group - one from the school chickens, one from the supermarket (economy) and one from a farm shop. And a few spare just in case.
- Dishes to crack the eggs into.
- Labels for dishes
- Photocopied sheets- one per child.

Starter

Explain that in today's lesson you will be looking at 3 different types of eggs. As a group will be looking at the following;

- Appearance of the shell, colour and size, thickness of shell.
- Appearance of the yolk, colour and texture.
- Appearance of the egg white, texture and colour.

Main Teaching Activity:

Ask each child to think about what they think a perfect egg will look like when cracked open. Each child will need a sheet to record their findings and to draw what they think that their perfect egg will look like, encourage labeling of the shell, yolk and white. Now demonstrate how to crack open an egg into the dish (without breaking the yolk), encourage each group to share the task of cracking open their 3 eggs. Give the children time to discuss their ideas and record their findings. Next read through the 'egg journey' and ask children to answer the questions;

- Which egg is best for environmental reasons? Why?
- Which egg causes the biggest impact on the environment?
- Which egg supports the local community?

Plenary

- Discuss the findings as a class. Ask: Do you think the appearance would affect the taste and nutritional value? Discuss the environmental implications of the different eggs and the lives of the chicken who laid them.

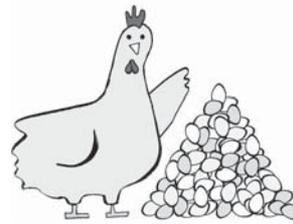
Differentiation

Discuss; 'Vast amounts of diesel/petrol are required to transport food products, this results in greenhouse gas being given off in to our environment resulting in global warming.'

Special Notes:

Ensure that hands are washed thoroughly after contact with eggs.
If you can't get a farm shop egg you can use an egg that is 2-3 days old from the school chickens.

3 eggs



1.) Describe the perfect egg, what should it look like?.....

2.) Draw your perfect egg:

3.) Analysis of eggs, marks out of 10.

	Egg from our chickens	/10	Egg from farm shop	/10	Economy Egg from supermarket	/10
Appearance of shell						
Appearance of yolk						
Appearance of white						
Total						

4.) Which egg is most like your description ?.....

5.) Which egg scored the most points ?.....

Egg journey:

Our eggs were collected from the eglu this morning to bring into the classroom.

The eggs from the farmshop Claire from the village keeps chickens and sells them to the farmshop, (5 miles away). The eggs are on the shelf within 4 hours of being collected.

Supermarket eggs John a farmer from West Oxford keeps chickens in his barn, they are transported by lorry 30 miles to a sorting plant. The eggs are sorted according to size and weight. A lorry then delivers the grade A eggs to a factory 20 miles away where they are boxed. From here the eggs are then distributed by lorry to the local supermarket depot, (100 miles away in Guildford). The eggs are then collected by another lorry to be delivered throughout the UK, (another 100 miles).

	our eggs	farmshop eggs	supermarket eggs
Total journey			
Other causes of pollution e.g. machinery	<ul style="list-style-type: none">•••	<ul style="list-style-type: none">•• Lorry•	<ul style="list-style-type: none">• Factory••