

**Title:** Pictograms, mean and mode.

**Subject Area:** Mathematics

**Key Stage 2**

**NC link:** Ma4

**Learning Objective:**

- Children learn to organize information.
- Children record the number of eggs laid by each chicken over a period of time and record their results on a pictogram.
- Children learn to work together to meet a challenge (key skills)
- Children consider mean and modal amounts of egg production.

**Resources:**

- An enlarged copy of the pictogram sheet to be used by the children.
- A rota of who will collect and record the information daily.
- Photocopied pictogram sheets (one per child)
- Two eggs (one laid by each chicken)

**Starter**

Explain that you will be investigating how many eggs each chicken lays over the next few weeks- decide on a period of time. Look carefully as a group at both eggs and discuss similarities and differences. Ask: How can we tell which egg is laid by each chicken? Discuss the rota and how the pictogram will be filled in over the week. (use key = one egg/two eggs as appropriate).

### Main Teaching Activity:

- Look carefully at the results from the pictogram, discussing the key.
- Using a photocopy of the pictogram worksheet ask the children to copy the information their own pictogram and complete the total box, consider different keys.
- Challenge the children to find the mean (by adding up the number of eggs produced and dividing by the number of days) and modal (most popular/common) amount of eggs produced for each chicken, chickens over a week etc.

### Plenary

- Ask: Can you predict how many eggs the chickens will lay next week? Next month? How? How did you find working as a team? How many eggs do you think that the chickens will lay over the year? Why is it useful to know how many eggs different breeds of chickens lay if you are keeping large numbers of chickens on a farm?

### Differentiation

Encourage the children to make predictions about the number of eggs laid in a longer period of time.

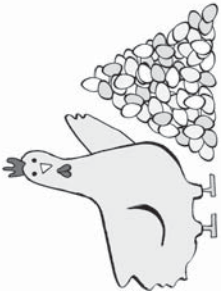
If appropriate extend the activity over a number of weeks.

Use more complex keys, for example = 2 eggs or 5 eggs.



**Special Notes:**

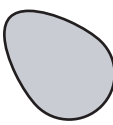
- Give guidance so that the children know what to do with the eggs once they are collected.

# Pictogram to show the number of eggs laid by our chickens this week



Week beginning .....

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday & Sunday	Total	Mean no. of eggs this week	Modal no. of eggs this week
Name: .....									
									
Name: .....									
									

Key:  = ..... egg/eggs