



Maths and numeracy on the farm

Suggested Participants – Primary 6/7 pupils

Farmers use maths on the farm on a daily basis. Counting livestock, working out how much to feed sheep, calculating how much fertiliser to use and working out lambing percentages are all examples of ways in which maths is used in a farming environment.

Some of the maths they use is simple - like counting livestock whilst other calculations involve a bit more thought and calculation. The really hard calculations often have online tools to help formulate the answers.

What this pack contains:

- All the resources to undertake maths on the farm with your p 6/7 class.
- Learning Intentions, Success Criteria and Suggested Experiences & Outcomes. Learning for Sustainability links.
- Lesson plan.
- Suggested additional activities.

Learning Outcomes

- We are learning to solve real life problems using data from the farm.
- We are learning to research a problem and collect data.
- We are learning to collect, organise and display data.

Success Criteria

- I can collect and interpret data.
- I can discuss how and why data is collected.
- I can display data in a way others can understand.
- I can discuss what farm businesses can do to become more sustainable.

Experiences and Outcomes

- **MNU 2-07a** I have investigated the everyday contexts in which simple fractions, percentages or decimal fractions are used and can carry out the necessary calculations to solve related problems.
- **MNU 2-20a** Having discussed the variety of ways and range of media used to present data, I can interpret and draw conclusions from the information displayed, recognising that the presentation may be misleading.
- **MTH 2-21a** I can display data in a clear way using a suitable scale, by choosing appropriately from an extended range of tables, charts, diagrams and graphs, making effective use of technology.
- **TCH 2-06a** I can analyse how lifestyles can impact on the environment and Earth's resources and can make suggestions about how to live in a more sustainable way.

Learning for Sustainability

- **Goal 4** Quality education: achieve literacy and numeracy.



Maths and numeracy on the farm Lesson Plan

Introduction

- Share/discuss the learning intentions and success criteria.
- Find out more about maths on the farm with our short [maths on the farm video](#).
- Choose from [maths learning resources platform](#) which activity you would like to undertake.

Suggested discussion points

- What type of problems do you think farmers need to solve?
- How do you think farmers collect data?
- How do you think maths might help a farmer?

Learning

- **Numeracy and mathematics outcomes:** The ability to carry out money calculations involving the four operations. The ability to compare costs and determine affordability. The ability to calculate profit and loss accurately.
- **Technologies outcomes:** The ability to discuss the advantages and disadvantages of how technologies impact on the environment.

Additional tasks

- Farmers are helping the environment in many different ways. You can find out more about anaerobic digesters with [a short video and question activity](#).

More information

- You can find out more about [machinery on the farm](#) with this worksheet and if you undertake the seeds and grains maths activity there are [a raft of additional resources](#) to support you.

Social media

Please tag [@TheRHET \(Twitter\)](#) or [@TheRoyalHighlandEducationTrust \(Facebook\)](#) in your lesson photos/comments.