



all
about
eggs

Stage
5

Sustainable Farm Design Teacher Resources

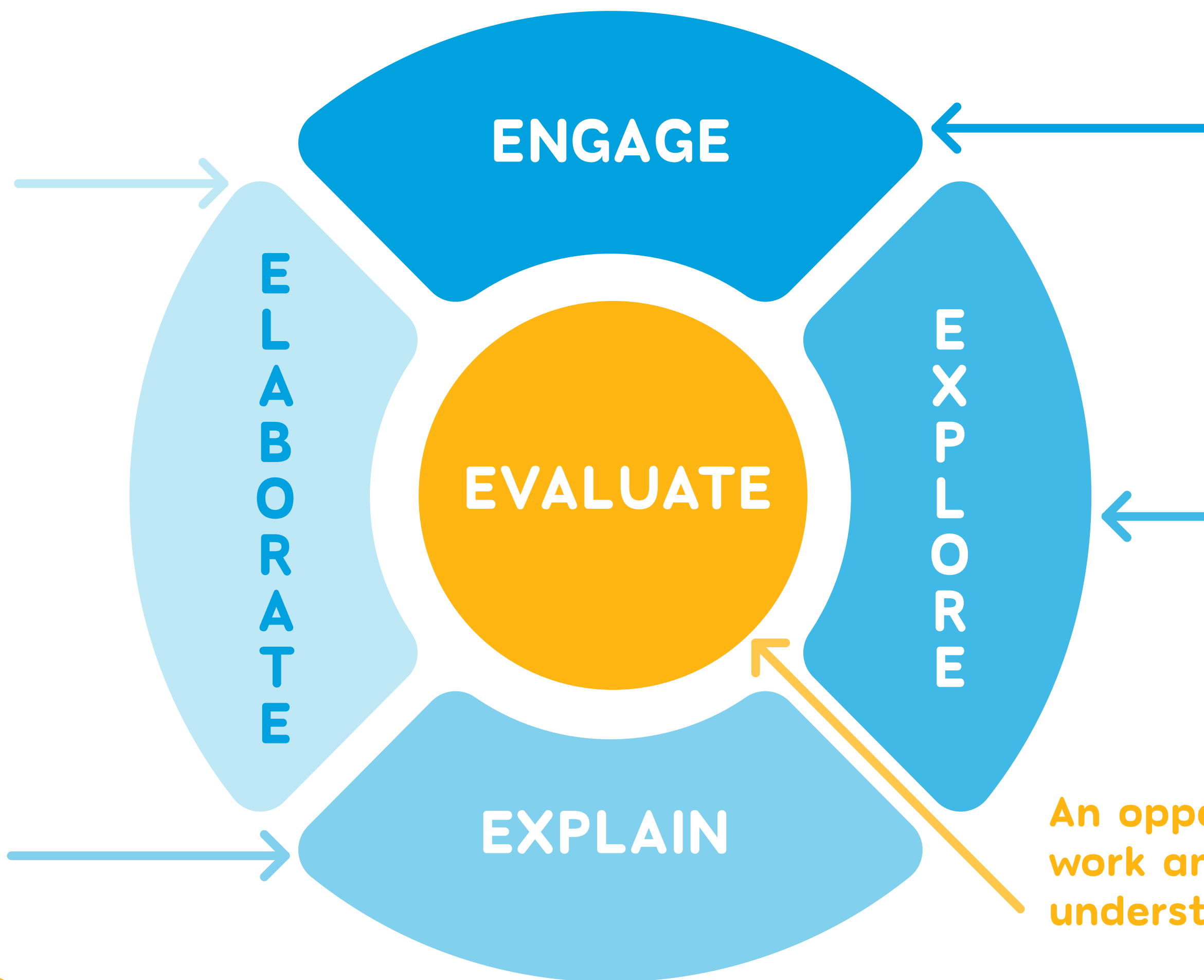
Interactive Whiteboard Resources

For schools that do not have access to an interactive whiteboard; please note that these resources can be downloaded as a PDF, accessed via student or shared school electronic devices, or simply used as teacher inspiration and professional learning.

5 E's Learning Model

Apply the new information to the situation and discuss ideas to develop a deeper understanding of the concept.

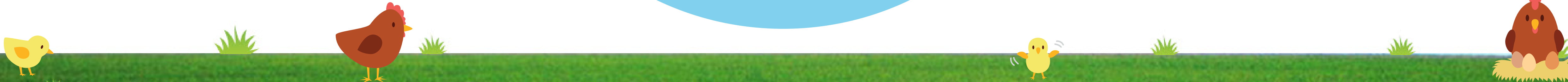
An explanation of the task follows an understanding of the concepts and information.



Start with an interesting question or problem and express what we know about the concept.

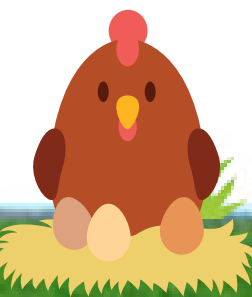
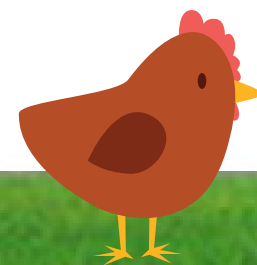
Explore the concept through research and activities and describe and make sense of the problem.

An opportunity to review the work and reflect on our learning, understanding and skills.



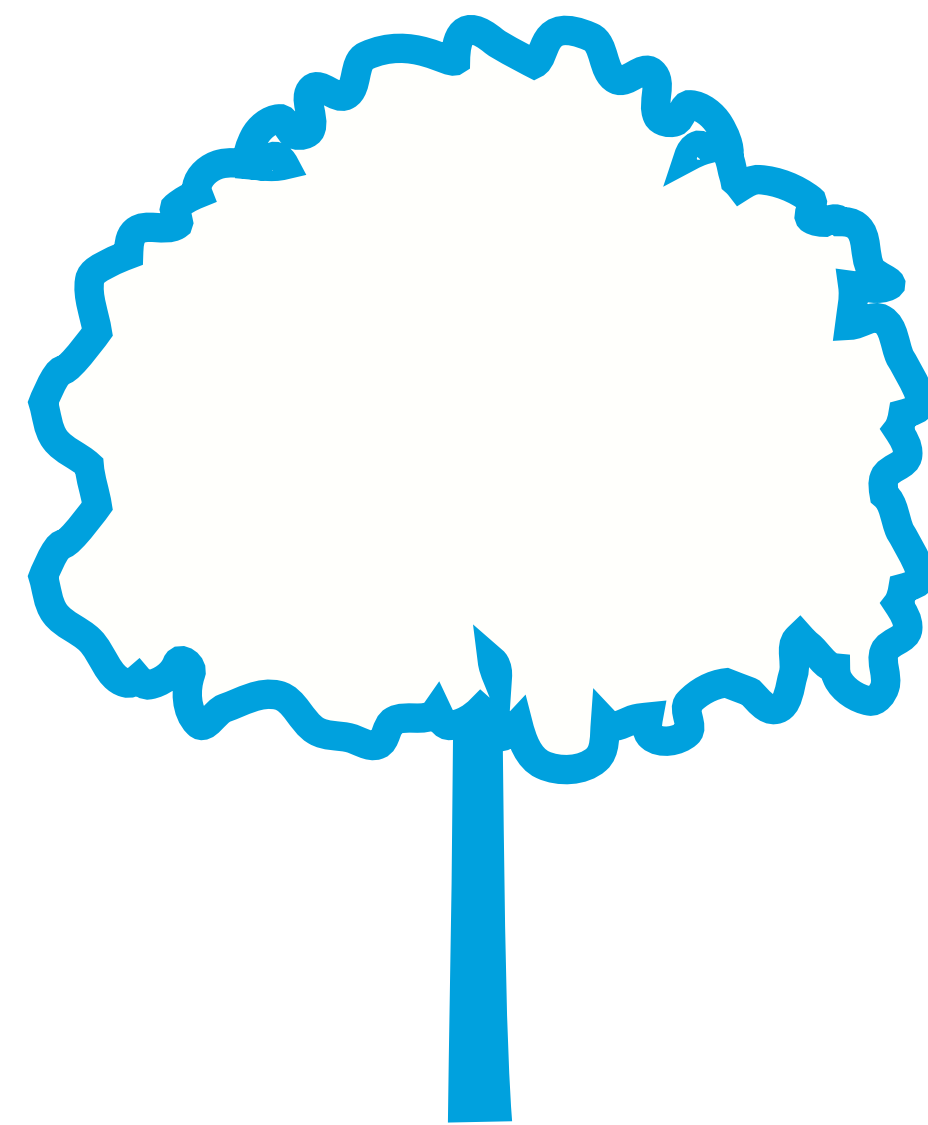
The big question:

How can Australian egg farmers use sustainable thinking and technology to ensure the best quality eggs are produced, whilst minimising impact on the environment and meeting community expectations?

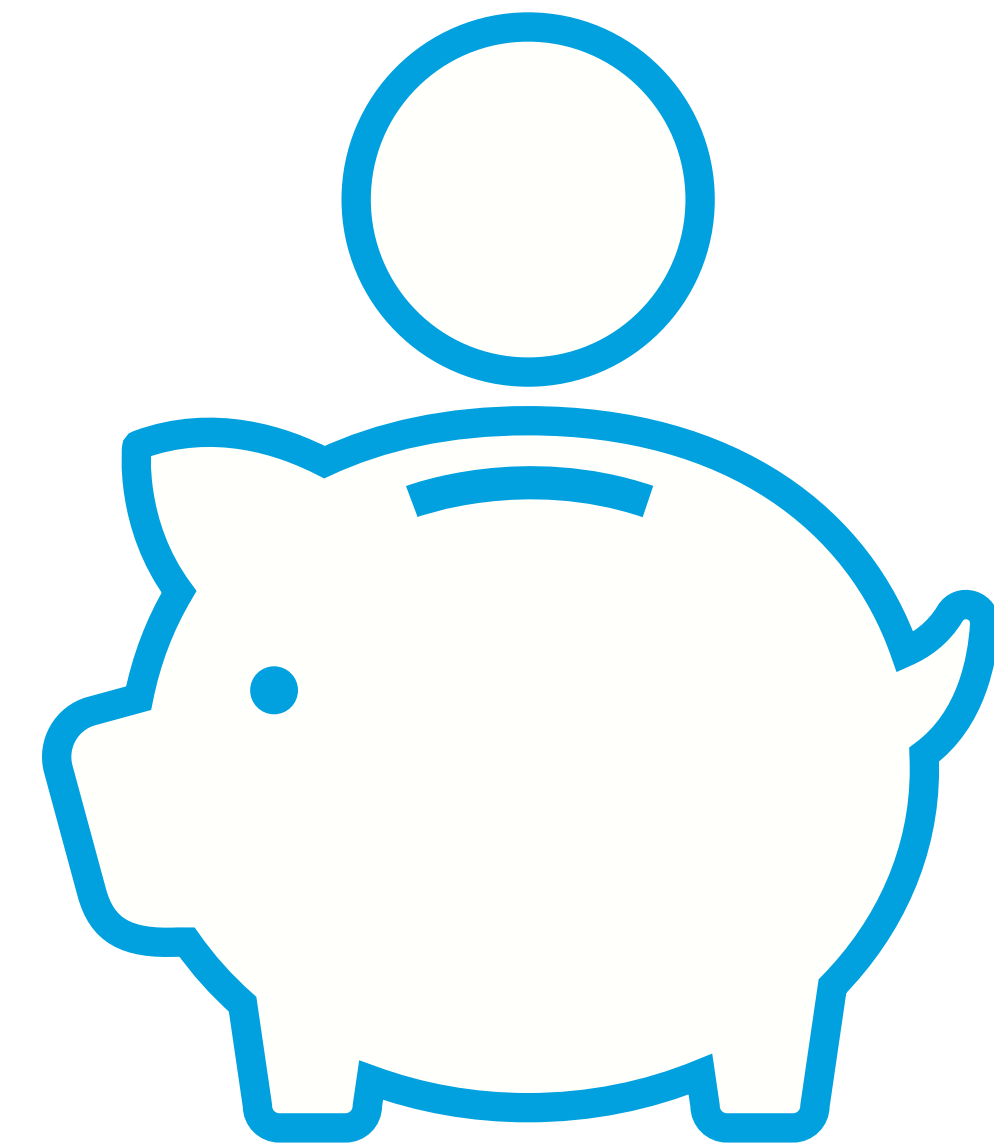




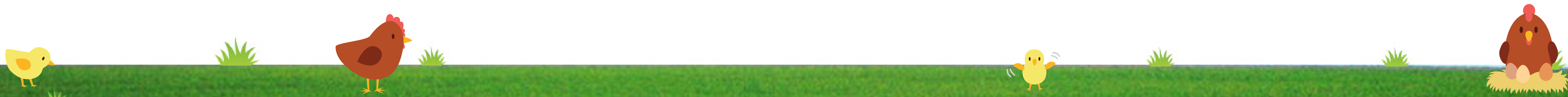
Social Sustainability



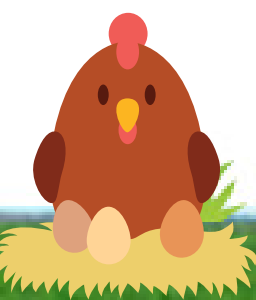
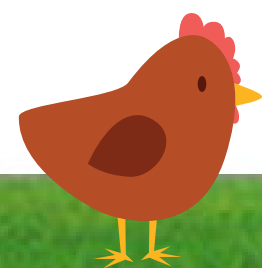
Environmental Sustainability



Economic Sustainability



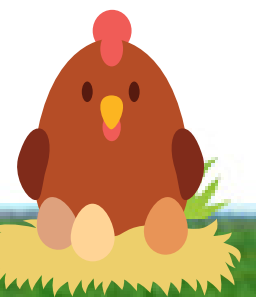
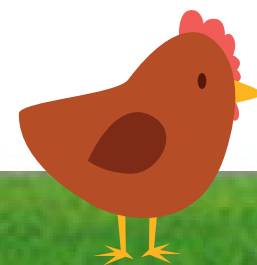
Sustainability in the Egg industry



Renewable (Clean) Energy Sources



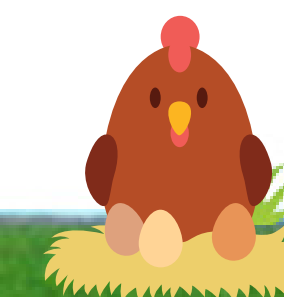
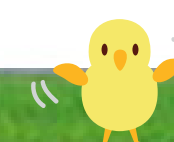
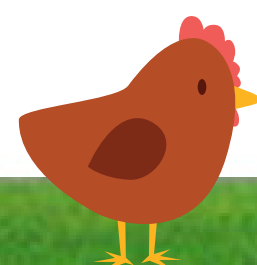
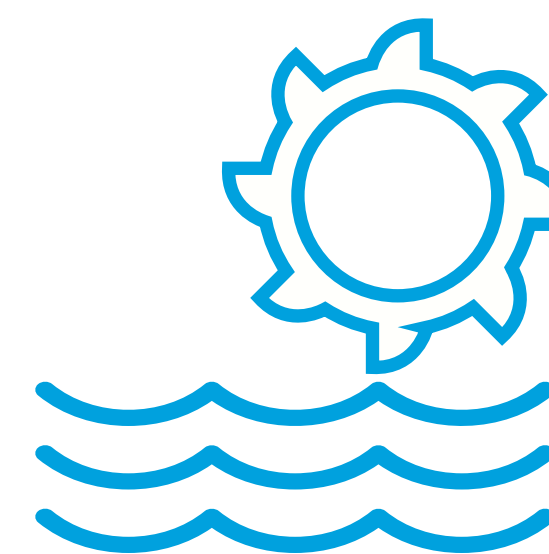
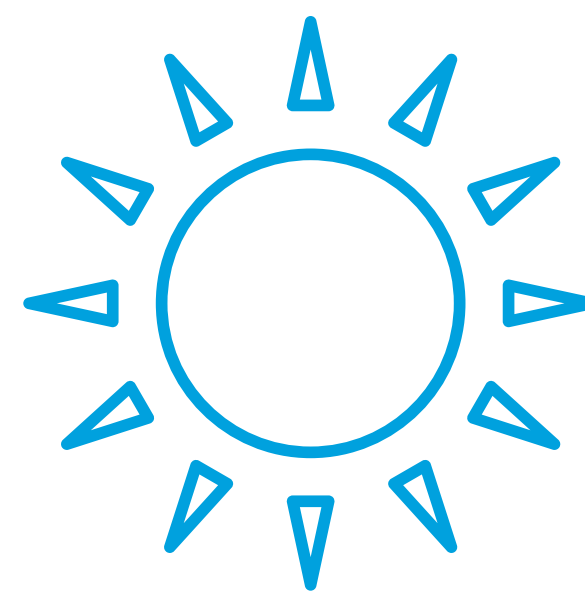
(Emaze, <https://www.emaze.com/@AWTRFOIT>, 2019)



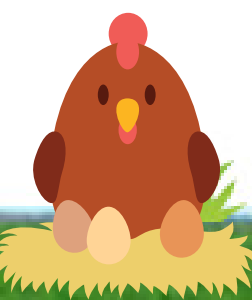
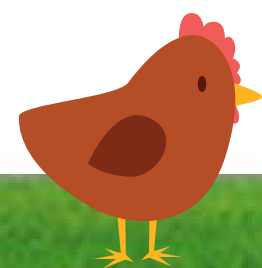
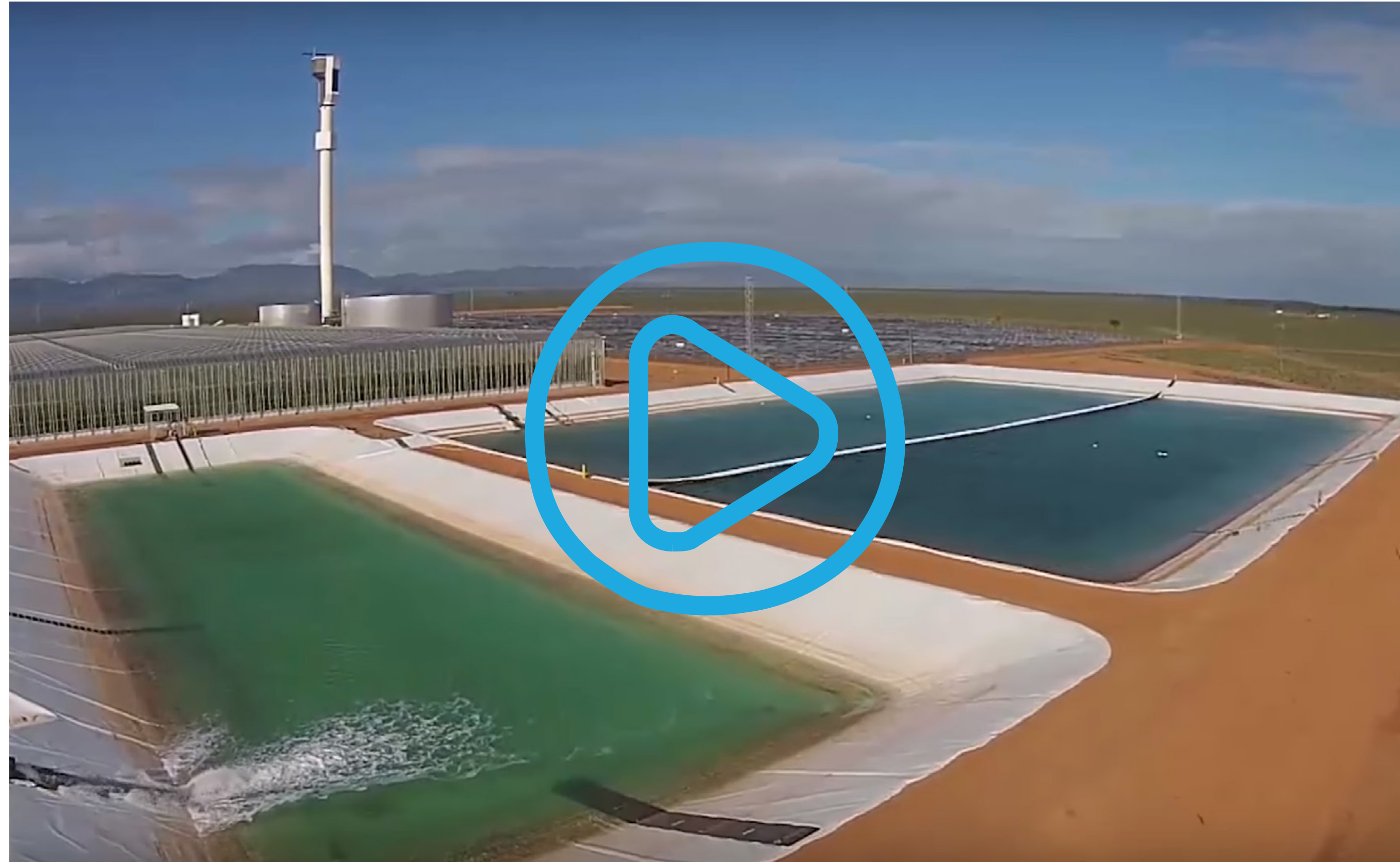
Challenge

1. Create a structure that uses renewable energy to lift a load from the floor to the table.

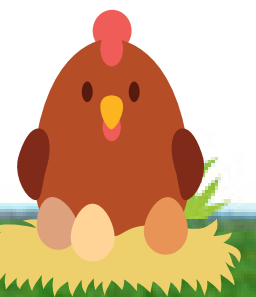
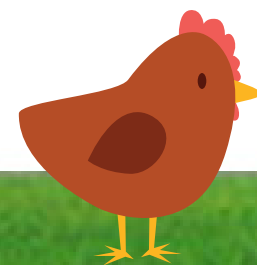
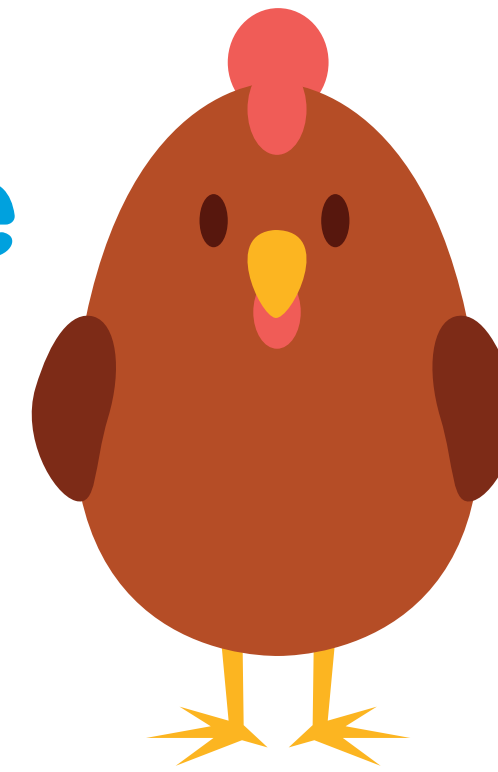
2. Create a structure that uses renewable energy to move a load 10 metres from point A to point B.



Renewable Energy in Agriculture



Animal Welfare in the Egg Industry



Dept of Agriculture and Water Resources

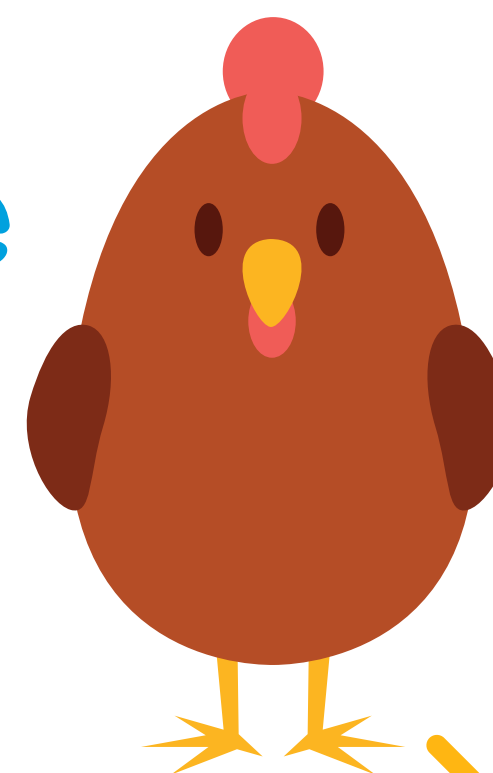
Food Authority in your state

Australian Consumer Law on Egg Labelling

Australian Eggs Animal Welfare page

Animal Welfare in the Egg Industry

Egg Standards of Australia (ESA)



RSPCA Australia

Australia New Zealand Food Standards code (FSANZ)

Legislation.gov.au - Regulations for Egg Production and Processing in Australia



Cage Eggs



Notes:



Barn-laid Eggs



Notes:



Free Range Eggs



Notes:



The task ahead:

Work in groups to develop a plan for a sustainable egg farm, using a range of technology, ideas for renewable energy sources, a clear understanding of hen health and an idea of how to use sustainability techniques on the egg farm to increase profits, and to support and contribute to the local community and environment.

