



national science week 2021

Bundaberg Dairy, Years F - 2

Overview Students design and build a container to protect an egg during transport.

Resources Various household items including cotton wool, egg cartons, rubber bands, balloons, straws, stockings, tape, string, popcorn, and eggs

Learning intentions

- "Explore the characteristics and properties of materials and components that are used to produce designed solutions." (ACTDEK004)
- "Use materials, components, tools, equipment, and techniques to safely make designed solutions." (ACTDEP007)
- "The way objects move depends on a variety of factors, including their size and shape." (ACSSU005)
- "People use science in their daily lives, including when caring for their environment and living things." (ACSHE022) & (ACSHE035)

Success criteria

For students to design and build a container that will protect an egg from braking during transport. The "egg drop" experiment.

Introduction

Your task is to design packaging that is safe and environmentally friendly to transport eggs from farm to store. <https://www.youtube.com/watch?v=nsnyl8llfH4> Watch this video from start to 1.39 for one idea and then from 4.06 onwards for four more ideas.

Lesson steps Allow students time to investigate different designs before the final test. Set up a height that the containers will be dropped from.

Conclusion



Discuss with the students which size and shape worked best to keep the egg safe.
Explain that science involves testing different ideas.
Discuss environmental impacts of the different materials used.