

# Year 4 Competition Brief

## Make a Model of a Chook House

Farmers who raise and care for livestock use technology to help them. They must provide appropriate food, shelter and water. Farmers must check their animals regularly to keep them healthy and arrange treatment from a vet if their animals are sick. Farmers also need to keep dangerous predators away from their livestock.

Groups investigate and report back to the class how a farmer cares for a range of livestock such as cattle, sheep and pigs. Organise your findings under headings such as;

- Area (How much space does the animal need?)
- Food (Not just grass!)
- Shelter (Is the animal kept in sheds or does it need trees?)
- Fencing (Don't forget to shut the gate!)
- Predators (Foxes, birds, insects can all cause harm)
- Health (What is drenching or docking?)
- Buildings (Milking sheds, shearing sheds etc)
- Machinery (What is the machinery used for?)
- Products (What is the end product the animal is farmed for?)

## The Competition

Individuals research how to care for poultry and draw plans to construct a model of a chook house that will keep poultry safe from predators. Students then investigate materials that are recycled or can be re-used and a variety of joining methods to construct a model of a chook house. Thought must be given to correct scale of all the elements of the model and student's plans should include measurements and a list of materials to be used.

The chook house should be suitable for a school garden and house up to 6 chooks. Students should write a short explanation suggesting how the school population would then care for the chook house.

All work must be by the student.

The completed chook house model must not be larger than 300mm x 300mm x 500mm and be constructed with recycled or re-used products where possible. Each chook house must be accompanied by a short explanation highlighting the features incorporated in the design and a brief explanation of on-going care and safety of the chooks (Maximum word count = 200 words).

See Chook House Rubric for Assessment Criteria.

Competition Rules and Guidelines form part of the Assessment Criteria

Name \_\_\_\_\_

Date \_\_\_\_\_

## Make a Model of a Chook House Rubric

Criteria	1	2	3	4	Points
Design & Problem Solving	Basic needs of six chooks not met. No design feature to deter predators.	Basic needs of feed and water are met. Limited design features to deter predators.	Most needs, including roosts and nesting boxes are included. Model shows good technology to deter predators.	All needs for six chooks are met and are sustainable. Model shows innovative technology to deter predators.	/12
Technology Concepts & Joining Methods	Model is incomplete and shows limited use of joining methods.	Model is unstable and shows the use of one joining method.	Model is stable and shows two or more suitable joining methods.	Model is very stable and shows a variety of suitable joining methods.	/12
Understanding & Complexity	Written explanation is incomplete and shows little understanding of the task. Word count is well under or over.	Written explanation is poorly structured and few design features of on-going care of chooks are detailed. Word count is more than 20% under or over.	Written explanation is well structured yet design features or on-going care of chooks is not explained in detail. Word count is slightly under or over.	Written explanation is well constructed and presented showing a well-developed understanding of subject content and concepts. Kept to word limit.	/12
Creativity & Selection of Materials	Very simple idea showing little thought of presentation. Recycled and re-used materials not evident.	Simple idea showing some thought of making model appealing. Some materials are recycled or re-used items.	Good idea showing thought to make model interesting, but some aspects not well done. Most materials are recycled or re-used items.	Creative idea showing thought of making model interesting and well presented. All materials are recycled or re-used items.	/12
Identification	No identification attached	Own name only attached	Own name & school name and address attached	Own name & school name and address clearly attached	/2
Total Points					/50

**NSW Syllabus Outcomes:** **S&T** Products and Services S2.5 **MATHS** Measurement MS2.1 **HSIE** Environments ENS2.6 **ENG** Learning to Read RS2.5