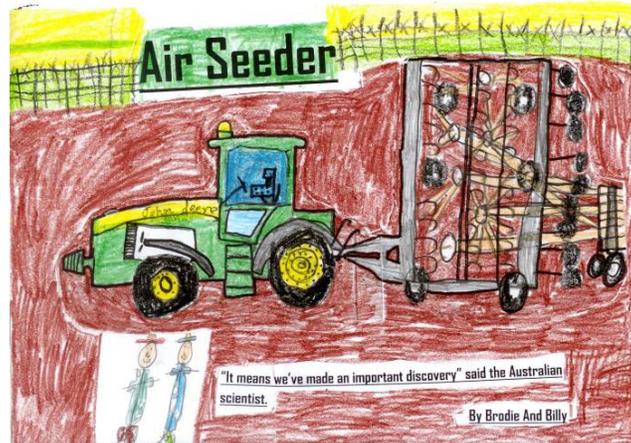


# Sustainability and our Farmlands

**Farms** grow **crops** and **stock** on the land. From these, we get **food** and **fibre**. **Native** and **introduced plants** and **creatures** live on farms too. These are all **living** things. There are also **non-living** things on farms, both **natural (soil, water, air)** and **man-made (infrastructure, machinery)**. All these parts may be in a **farming environment**.



This story is about a farm and a **20<sup>th</sup> Century Australian Science discovery** that is used on farms. It may be **new knowledge** and/or an **invention**. How did this help the farmer, and change his farmwork?  
*Use the text, details in the pictures, and Key Science Ideas pages to find the answers to the questions below. (Some, but not all, help is given.)*

- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' did farmers have before this invention? (page 3)
  - b What invention solved these problems for putting the crop in?
  - c How did it make farming easier and/or better? (pages 3, & 5-7)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (pages 11 and 14 )
  - b How long has it been since it was first known/used?
  - c Has this invention been improved, and still useful today?

**Sustainable farming** is looking after the whole environment, so that  
**1** crops and stock grow well (and the farmer makes a profit), and  
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5 Do you think the Scientific discovery in this story helped make farms more sustainable? Why/not?

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"It means we've made an important discovery for farming," said the Australian Scientist.

## The Auto Header

By Hudson and Jude



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- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What harvesting 'problems' were there in the past? (page 10)
  - b What invention solved these problems for the harvest?
  - c How did it make farming easier and/ or better? (pages 3, 7, & 10)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (pages 6, 10 & 15)
  - b How long has it been since it was first known/used?
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Good Bye Bad Seeds, Hello Good Seeds

"It means we've made an important discovery" said  
the Australian Scientist



Hannaford Pickler

By Connor and Charlotte

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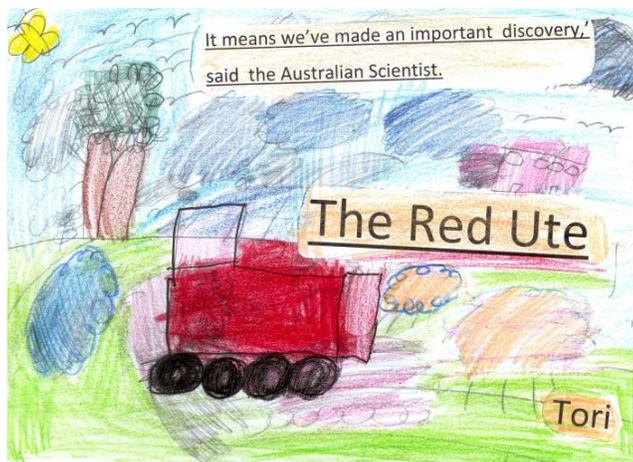
- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' did the farmers have? (page 3, 8, 12 & 15)
  - b What invention helped the farmers?
  - c How did it make farming easier and/ or better? (pages 9 & 13)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (pages 5-6, & 13)
  - b How long has it been since it was first known/used?
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- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' did farmers have with vehicles? (page 7 & 9)
  - b What vehicle invention in this story helps farmers?
  - c How did it make farming easier and/ or better? (pages 2-4, 6-7)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (page 9)
  - b How long has it been since it was first known/used?
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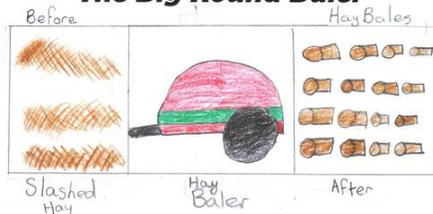
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## Round and Round It Goes!!

### The Big Round Baler



"It means we've made an important discovery"

said the Australian scientist.

By Jonti and Imogen

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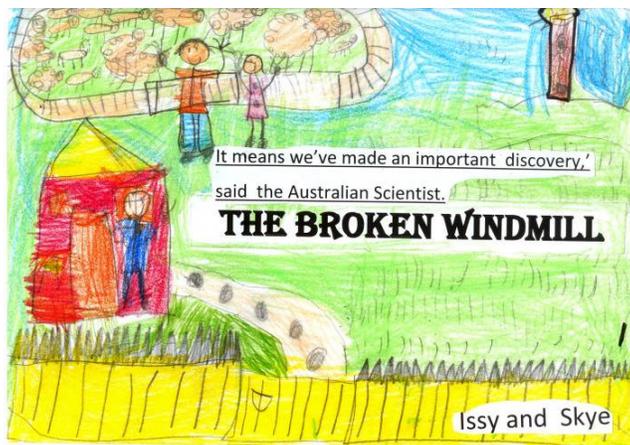
- 1
  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' the farmers have in this story? (pages 1- 3, 14)
  - b What invention helped the farmers in this story?
  - c How did it make farming easier and/ or better? (pages 11-12)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (pages 10 & 15)
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  - a What sort of farm is this?
  - b What living things are there on this farm?
  
- 2
  - a What 'problem' did the farmers have in this story? (pages 4 & 11)
  - b What invention helped the farmers in this story?
  - c How did it make farming easier and/ or better? (pages 10 & 11)
  
- 3
  - a Name the Australian Scientist who invented this?
  - b Where did he live?
  - c What experience did he have with farming and Science?
  
- 4
  - a Explain how this invention works. (pages 7 & 11)
  - b How long has it been since it was first known/used?
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