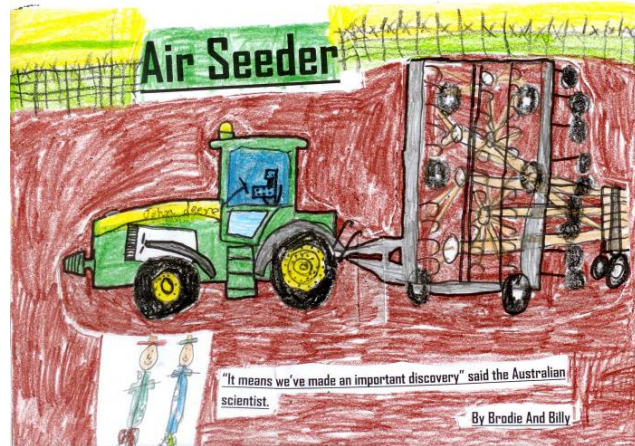


Sustainability and our Farmlands

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 **20th 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?

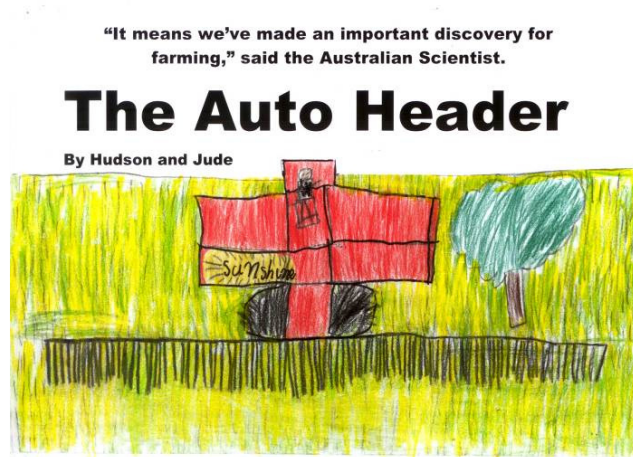
- 4
 - a Explain how this invention works. (pages 11 and 14)
 - b How long has it been since it was first known/used?
 - c Has this invention been improved, and still useful today?

Sustainable farming is looking after the whole environment, so that
1 crops and stock grow well (and the farmer makes a profit), and
2 all the other parts also continue well into the future.

5 Do you think the Scientific discovery in this story helped make farms more sustainable? Why/not?

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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?
 - c Has this invention been improved, and still useful today?

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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?

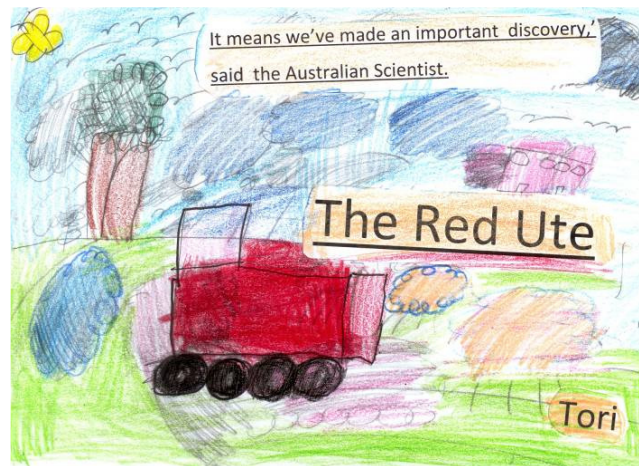
- 4
 - a Explain how this invention works. (pages 5-6, & 13)
 - b How long has it been since it was first known/used?
 - c Has this invention been improved, and still useful today?

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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?
 - c Has this invention been improved, and still useful today?

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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?

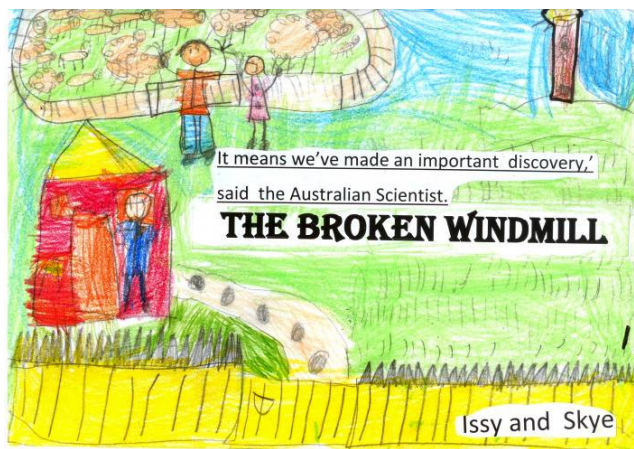
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 - a Explain how this invention works. (pages 10 & 15)
 - b How long has it been since it was first known/used?
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Use the text, details in the pictures, and Key Science Ideas pages to find the answers 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 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?
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 - a Explain how this invention works. (pages 7 & 11)
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