



Student Introduction

- ▶ Use your map to visit the different sites. At each site you will see equipment, a bore hole, or crops.
- ▶ Think about each site and put a tick or a cross for each question. The first one has been done for you.
- ▶ Back at school you will use this information to help you prepare a presentation about sustainability at Tapnell Farm Park.

## Tapnell Farm Park: A Bid for

Sustainability is very important to everyone at Tapnell Farm Park. The staff at Tapnell Farm Park would like to become more self-sufficient for their energy.

<p><b>Part of Tapnell Farm Park's Sustainable Project</b></p>	<p>Does this use fossil fuels?</p>	<p>Will this supply hot water?</p>	<p>Will this provide heating?</p>	<p>Will this equipment provide a supply of water?</p>	<p>Will this put more carbon dioxide into the air?</p>	<p>Will this mean that Tapnell Farm Park will not have to pay for electricity?</p>
<p><b>Crops Grown for Anaerobic Digester</b> Crops grown at Tapnell Farm Park are used in an anaerobic digester to produce biomethane. This biomethane is used to generate electricity.</p> 	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>X</p>	<p>✓</p> 

<p><b>Part of Tapnell Farm Park's Sustainable Project</b></p>	<p>Does this use fossil fuels?</p>	<p>Will this supply hot water?</p>	<p>Will this provide heating?</p>	<p>Will this provide a supply of water?</p>	<p>Will this put more carbon dioxide into the air?</p>	<p>Will this mean that Tapnell Farm Park will not have to pay for its electricity?</p>
<p><b>Biomass Boiler</b></p> <p>Burns wood pellets to make hot water and central heating for the houses and the restaurant.</p> 						
<p><b>Solar Panels</b></p> <p>Provides electricity for the restaurant and other areas of the farm.</p> 						

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<p><b>Bore Hole</b> Collects fresh water from underground.</p> 						

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## Tapnell Farm Park - A Sustainable Future

**BACK AT  
SCHOOL**

### Remember!

- ✓ Sustainability is important to everyone at Tapnell Farm Park.
- ✓ The owners want to become totally energy self-sufficient.

### Your Task:

- Work in a small group.
- Research other forms of renewable energy that could be used at Tapnell Farm Park.
- Present your ideas.

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Your Presentation

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▶ Should suggest other forms of renewable energy that could be used at Tapnell Farm Park.

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- ▶ Will be displayed to the rest of the class, either as a verbal presentation with the use of posters or as a PowerPoint presentation.
- ▶ The most successful presentation will then be forwarded to Tapnell Farm Park for their consideration.

### Time Scale:

You have two lessons and two homework sessions to produce your bid.

You need to ensure that all members of your group are ready for the presentation.

### Success Criteria:

Marks will be awarded for:

- ✓ Description of the renewable energy sources used at Tapnell Farm Park
- ✓ Ideas for different renewable energy that could be used at Tapnell Farm Park
- ✓ A list of the books and websites you used for your presentation
- ✓ Team work
- ✓ A clear and factual presentation.





Tom's Eco Lodge  
(accommodation guests only)  
www.tomsecolodge.com

**THE COW GO**  
- RESTAURANT AND BAR -

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**THE STRAW BALE ADVENTURE BARN**

**THE ANIMAL BARN**

**MEETING POINT**

**ENTRANCE & EXIT**

**FARM PARK GIFT SHOP**

**ENTRANCE**

## What's at Tapnell Farm Park...

- 1 Jumping Pillow
- 2 Mini Pillow - NEW Summer 2017
- 3 Soft Play
- 4 Imagination Play
- 5 Toddler Zone
- 6 Tiny Tapnell Role Play Town
- 7 Little Nippers Tractors
- 8 Bugs and Beesties - NEW Summer 2017
- 9 Animal Theatre
- 10 Meet the Animals
- 11 Party Room
- 12 Pedal Go Karts
- 13 Straw Bale Pyramid
- 14 Zip Wires
- 15 Climbing Wall
- 16 Haven Falconry (seasonal)
- 17 The Paddocks
- 18 The Lookout
- 19 Mini Go Karts
- 20 Tapnell Adventure Trail
- 21 Wallaby Walkabout
- 22 Meerkat Enclosure
- 23 Goat Zone

### ECO FEATURES

- E1 Bore Hole
- E2 Biomass Boiler
- E3 Solar Field
- E4 Crops grown for Anaerobic Digestion