

## Making our stadium sustainable

Our stadium needs to be sustainable, look pretty and if possible serve the community. As a result, you have been charged with two projects to make the stadium sustainable and swerve the local communities. The first project is for the week of the 15<sup>th</sup>. The second project is for the week of the 22<sup>nd</sup>.

**Project one:** Make the stadium self sufficient for its power needs using renewable energy. Reading football ground does exactly this. What would you design in terms of generating electricity.

### Success criteria

- A description of how the renewable sources you use to produce electricity.
- A description on how it affects the carbon footprint.
- A description of its suitability for the stadium.
- A model of the sources you use on mind craft or physically (optional).

### Useful links/resources

- [Information for kids on the environment, climate change and wildlife | Young People's Trust For the Environment \(ypte.org.uk\)](http://ypte.org.uk)
- [Resources - CPRE, the countryside charity](http://www.cpre.org.uk)
- [Environment for Kids: Renewable Energy \(ducksters.com\)](http://www.ducksters.com)
- [Renewable resource Facts for Kids \(kiddle.co\)](http://www.kiddle.co)

**Project Two: Designing sustainable gardens and ponds using AQUAPONICS in order to improve the visual look of the stadium and produce vegetable/flowers for the local community.**

### **Success criteria**

- A description of what aquaponics is.
- Explain how plants benefit from this and how do the fish benefit.
- A design of your pond and garden system explaining your choices and designs.
- Incorporated into your design on mind craft or a physical model (optional).

There are videos of making home made aquaponics systems if you are bored and want something to do over Easter you could have a go at making one (Parental permission required AND ITS OPTIONAL).

Useful links

- Growing plants using Aquaponics
- [\(PDF\) Aquaponics: The Basics \(researchgate.net\)](#)
- [\(PDF\) Aquaponics Guidelines \(researchgate.net\)](#)
- [Making a mini aquaponics system - YouTube](#)