

Outdoor Learning Lesson Plan

Year
2

Science

Earth and Space Sciences

- Earth's resources are used in a variety of ways (ACSSU032)

Cross Curricular Links:

Design and Technologies: Identify how people design and produce familiar products, services and environments and consider sustainability to meet personal and local community needs (ACTDEK001)

Design and Technologies: Explore the characteristics and properties of materials and components that are used to produce designed solutions (ACTDEK004),

Resources and Preparation:

- Blocks to build 2 model towns approx 2.8 metres apart.
- 3 x 1m pipes, or hollowed out bamboo halfpipes.
- Rope.
- Scissors.
- Bricks/blocks/crates, or 9 smaller bamboo pipes.
- Bottle or bucket of water.

Introduction (20mins)

Explain that only a very small amount (3%) of our World's water is fresh for us to use and drink and we can only have enough for everyone if we share and make sure it is not wasted or polluted. Discuss how one method of sharing water to places that need it is to build aqueducts. The Roman people over 2000 years ago built aqueducts to share water between towns and now we have very long aqueducts to share water all around the World. Share together some image examples of original Roman Aqueducts and more modern versions.

Mapped to the Australian Curriculum

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Main Activity (30mins): Design and Construct and Aquaduct

In 2 groups, children build aquaducts that can transfer water safely from one model town to the next. The rules of this challenge are:

- Everyone must work together as a team.
- No one can be holding the aquaduct up when the water is flowing.
- Their aquaduct must be built on flat ground.

Provide each group with all the resources.

Each group investigates whether their aquaduct can successfully transport water and has an opportunity to amend any faults in their design, before sharing their construction with the other group.

Reflection (10mins):

Each group reflects how well they worked as a team and how successful their aquaduct design was. Ask, would they change anything next time to improve their design?

Finally, discuss together how their school could conserve more water, e.g. turning off/fixing dripping taps, recycling water for garden beds.