

# Developing sustainability through primary design and technology

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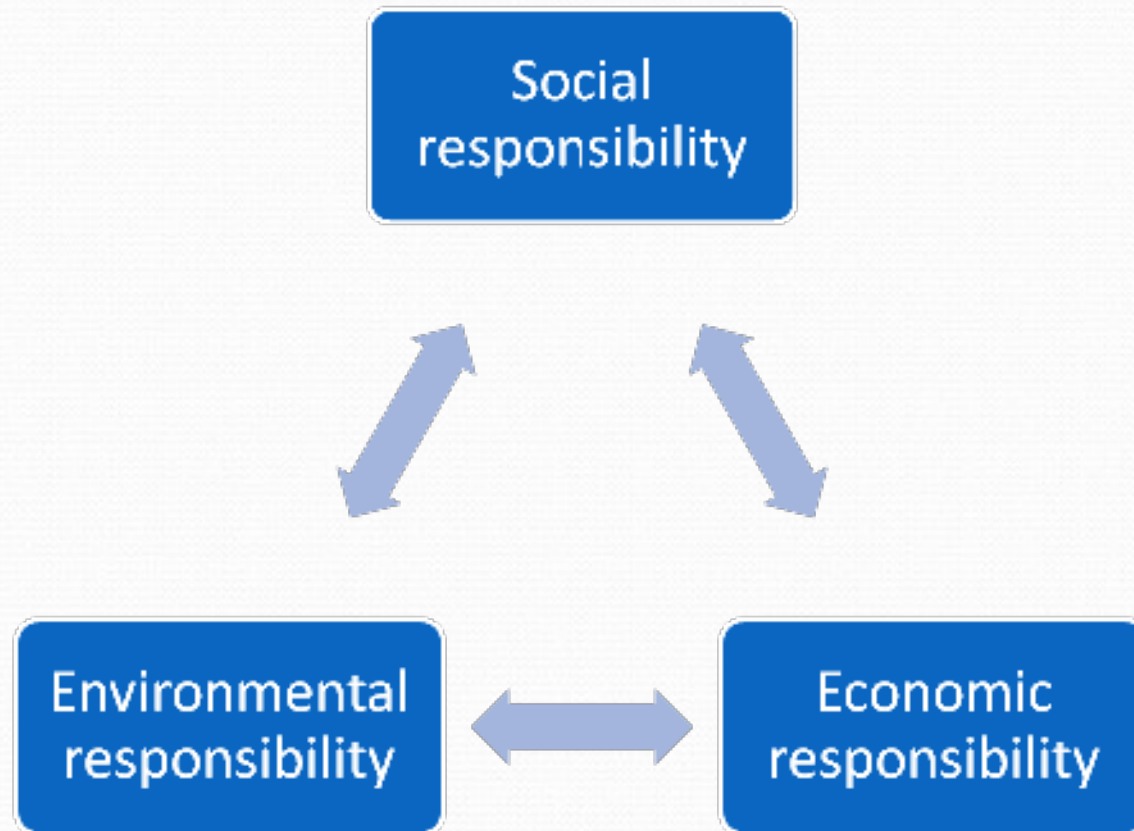
# Why sustainability?

- vitally important global issue, *e.g. pollution, climate change, depleting natural resources, poverty*
- global citizenship acknowledges our interconnectedness and interdependence
- taking positive action now for an improved future
- Sustainable Schools initiative
- PSHE & citizenship
- Every Child Matters

# What is sustainability?

- Sustainability involves finding solutions that improve people's quality of life without damaging the environment and without storing up problems for the future, or transferring them to other parts of the world.
- The key goals of sustainability are to live within our environmental limits, to achieve social justice and to consider social and economic progress while developing a quality of life for all.

# Key elements of sustainability





# Sustainable Schools

- [www.teachernet.gov.uk/sustainableschools](http://www.teachernet.gov.uk/sustainableschools)
- developing a sense of care and responsibility for:
  - themselves
  - each other (across cultures, distances and generations)
  - the environment (near and far)
- curriculum, campus, community
- 8 doorways
- OFSTED - school self-evaluation

# Why sustainability and D&T?

D&T involves children:

- learning about the made world
- developing capability in designing and making
- thinking about other people's needs and values
- evaluating products
- choosing and using resources
- developing their own ideas for better solutions.

# Strengthening the sustainability dimension of D&T

- Contexts
- Learning objectives
- Resources
- Working practices
- Activities



# The pack

- Guide for teachers and subject leaders
- Using QCA units and alternative contexts and outcomes
- Foundation Stage themes (3)
- Key stage 1 units (2 revised; 1 new)
- Key Stage 2 units (4 revised; 2 new)
- Further resources will be available from [www.ed.uce.ac.uk/crypt/sustainability](http://www.ed.uce.ac.uk/crypt/sustainability)



# Food & drink

- Healthy eating
- Sourcing food
- Food miles
- Organic/local/fair trade/ethically produced foods

[www.foodafactoflife.org.uk](http://www.foodafactoflife.org.uk)

[www.soilassociation.org.uk](http://www.soilassociation.org.uk)

[www.fairtrade.org.uk](http://www.fairtrade.org.uk)



# Energy & water

- Why save energy?
- Renewable energy sources
- Managing water supply

[www.think-energy.com/ThinkEnergy](http://www.think-energy.com/ThinkEnergy)

[www.cat.org.uk](http://www.cat.org.uk)

[www.ace.mmu.ac.uk/kids](http://www.ace.mmu.ac.uk/kids)

[www.oxfam.org.uk/coolplanet](http://www.oxfam.org.uk/coolplanet)



# Travel & traffic

- Pollution, congestion and safety
- Use of finite resources
- Alternative forms of transport
- Group/mass transport



[www.thewalkingbus.co.uk](http://www.thewalkingbus.co.uk)

[www.suschool.org.uk](http://www.suschool.org.uk)



# Purchasing & waste

- Choosing resources
- Where do resources come from?
- The 3 Rs – reduce, reuse, recycle
- What happens to waste?

[www.recyclezone.org.uk](http://www.recyclezone.org.uk)

[www.recycling-guide.org.uk](http://www.recycling-guide.org.uk)

[www.recycledproducts.org.uk](http://www.recycledproducts.org.uk)





# Buildings & grounds

- Making best use of environments – in and out
- Considering social, economic and environmental issues

[www.ltl.org.uk](http://www.ltl.org.uk)

[www.teachernet.gov.uk/growing-schools](http://www.teachernet.gov.uk/growing-schools)



# Local well-being

- Improving the environment and making contributions to the local community





# Global citizenship

- Acknowledging our interconnectedness with others
- Valuing people, cultures, animals and environments from around the world



[www.oxfam.org.uk/coolplanet](http://www.oxfam.org.uk/coolplanet)

[www.globaldimension.org.uk](http://www.globaldimension.org.uk)

[www.dea.org.uk](http://www.dea.org.uk)

# How can subject leaders promote sustainability in D&T?

- Through training
- Through providing appropriate D&T materials
- Through providing appropriate resources for teaching and learning
- Through appropriate storage and handling of resources
- Through displays and special events, e.g. *Fair Trade fortnight in March*