

Urban Sustainability

Learning Objective:

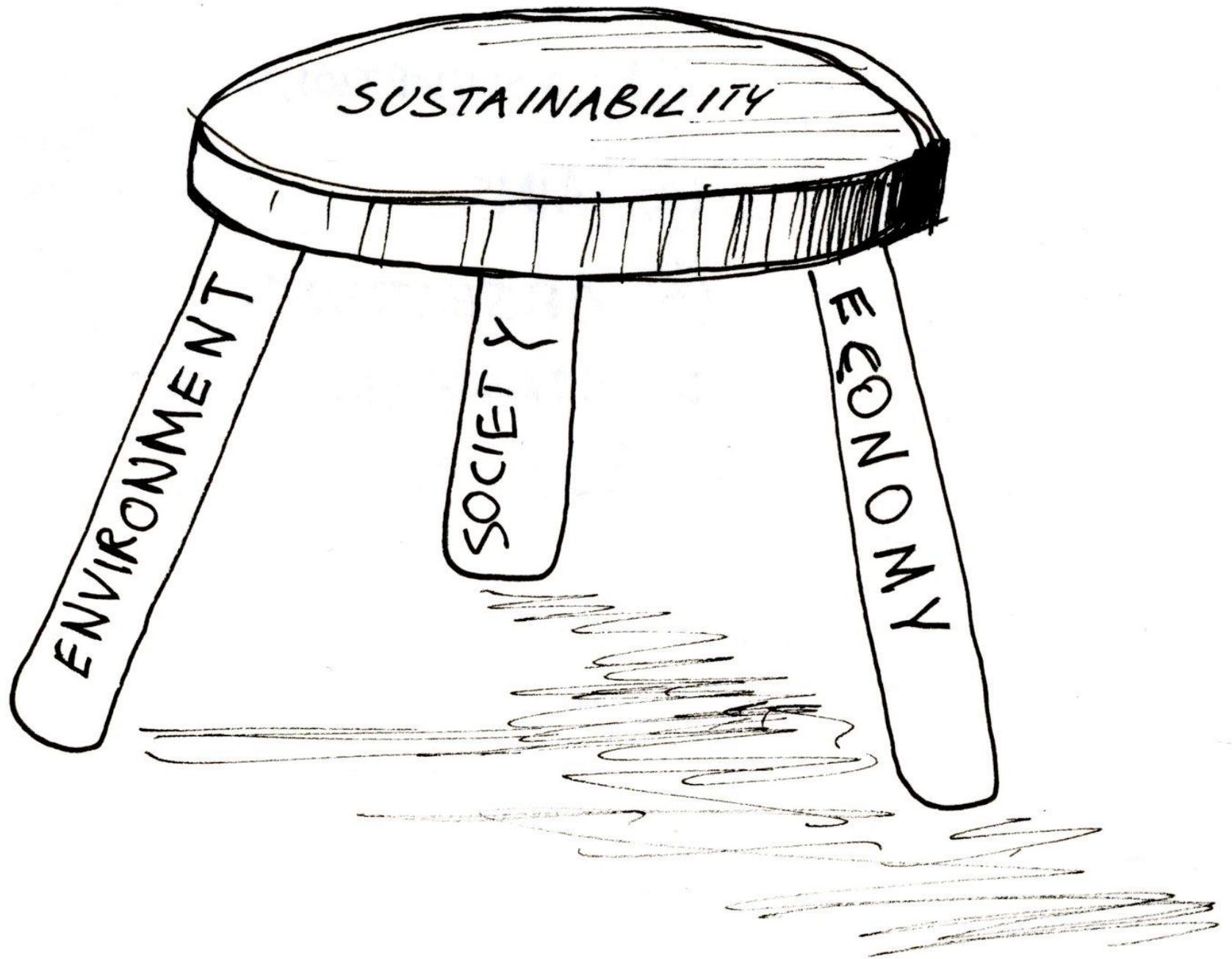
-**Examine** how urban areas can be made more sustainable



Learning Outcomes:

- Explain** what sustainable living is
- Design** a sustainable urban area
- Assess** how our local area can become more sustainable





SUSTAINABILITY

ENVIRONMENT

SOCIETY

ECONOMY

What is sustainable living?

Doing things in a way that lets people living now have the things they need, but without reducing the ability of people in the future to meet their needs.

- Power generation
- Waste
- Water supply
- Transport system
- Housing
- Natural environment

The Future for Newcastle and other NE cities

Green Jobs for the future!

- Newcastle is one of 6 Science Cities in the UK.
- The old Newcastle Brewery is to become a centre for energy and environmental research - developing sustainable businesses.
- **Walker Riverside** offshore technology and subsea technology park e.g. Siemens wind turbine factory (making wind turbines),
- **Nissan** electric car battery and electric car manufacture.

Water Conservation Schemes	Energy Conservation Schemes	Creating Green Space	Waste Recycling
Collection of household recycling boxes	Promoting renewable energy sources	Metal cans are melted down and used to make more cans	Installing water meters so that people have to pay for the water they use
Reduce the risk of flooding by reducing surface runoff. Also absorbs CO ² , whilst releasing O ²	Websites, e.g. Freecycle™ where items are offered for free so they can be used by others	Installing toilets that use less water to flush	Less waste in landfill sites – decomposing landfill releases greenhouse gases
New homes meet minimum energy efficiency standards	Collecting rainwater for use on gardens or for flushing toilets	Make people happier by providing a break from noise and city bustle	Incentives to make homes energy efficient – homeowners can sell energy they make from solar panels
Encourage people to exercise more and use alternative transport e.g. bike	People encouraged to turn off lights when not needed at home	Encouraging people to turn off taps brushing whilst teeth	Provide naturally cooler areas where people can relax

Explain how urban areas such as Peterlee and Horden can become more sustainable. (4 marks)

Hint:

- Select **2 boxes** from the previous task
- Don't copy the writing in the boxes, change the sentences...
- Use the **CATT** to link your statements
- 2 links, well written = 4 marks

Why is it unlikely that cities can ever be truly sustainable?

