

Urban Sustainability

Learning Objective:

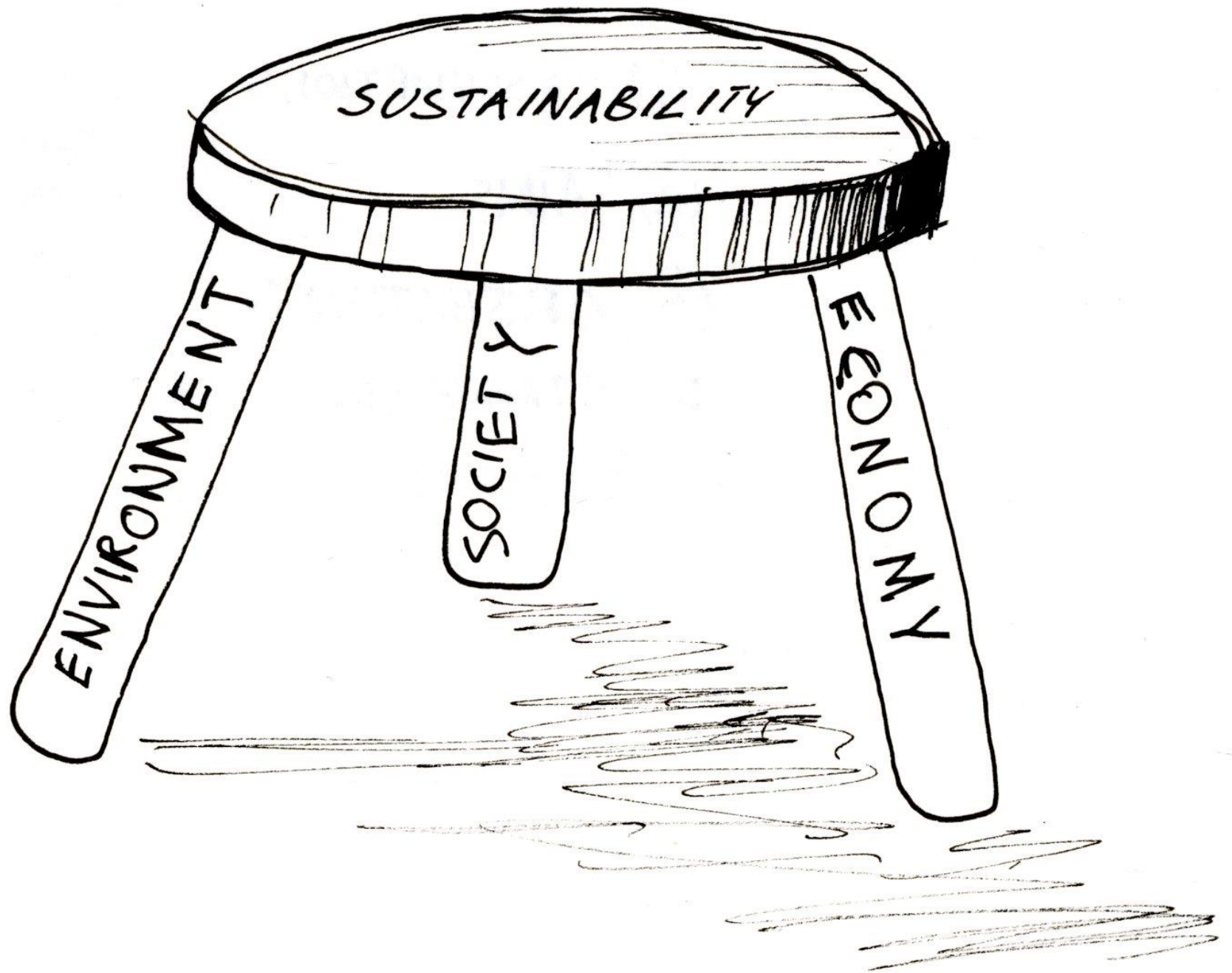
-**Examine** how urban areas can be made more sustainable



Learning Outcomes:

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





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?

