

Learning outlines

Learning Foci	Understand/Know/Do	Suggestions for pedagogies/strategies	Supporting resources
<p><u>Complexity science and systems thinking</u></p>	<p>Describe components and principles of complex systems and how they interact: emergence, interconnectedness, non-linear relationships, feedback loops, unintended consequences, systems adaptation, and resilience.</p> <p>Apply systems thinking to explain influences on sugary drink consumption.</p> <p>Identify components of the sugary drink system (such as producers, distributors, marketers, consumers, and regulatory bodies), and suggest opportunities to disrupt negative influences.</p> <p>Provide examples of feedback loops that positively and negatively influence sugary drink consumption.</p> <p>Explain the importance of looking for patterns over time when attempting to analyse and predict short- and long-term consequences of changes to a system.</p>	<p>Systems modelling activity where students move around the room to model/become part of a complex system.</p> <p>Direct teaching supported by visual display/PPT</p> <p>Discuss stories to illustrate feedback loops</p> <p>Students make up their own stories to illustrate feedback loops.</p> <p>Survey grandparents and elders about beverage consumption when they were young – what non-alcoholic drinks did they make/buy/enjoy?</p> <p>Discuss stories or videos illustrating how and why sugary drink consumption has changed over time</p> <p>Make a timeline to map changes over time in sugar production and consumption across societies and cultures.</p> <p>Explore and analyse GUiNZ beverage data.</p> <p>Community Survey: Work in pairs or small groups to survey their community about their sugary drink consumption habits and attitudes towards reducing consumption. Analyze findings and share results with others.</p>	<p>LENScience <u>Systems Science for Health Living</u> resources</p> <p>Systems modelling activity</p> <p>PowerPoint slides</p> <p>Feedback loop stories</p> <p>Survey support</p> <p>Change over time video/stories</p> <p>Timeline template</p>