Explore carbon capture and storage (CCS) through the scientific principles of climate change, greenhouse gases, energy production, and carbon cycles with only a few low-cost, readily-available materials.

Using Styrofoam balls, charcoal briquettes, pipe cleaners and mesh, balloons, jars, marbles, and liquids, teachers can demonstrate the following concepts:

1. How CO$_2$ forms during the combustion of hydrocarbon
2. How much CO$_2$ we produce during everyday activities
3. How CO$_2$ traps heat in the atmosphere
4. How CO$_2$ affects health and safety
5. How geologic capture and storage of CO$_2$ reduces emissions

Find more information on this lesson plan and other resources by scanning the QR code or visiting: beg.utexas.edu/gccc/k-12-teaching-resources