

South Carolina Science

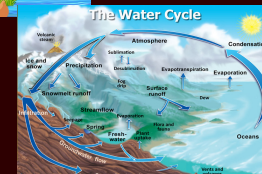
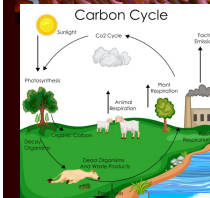
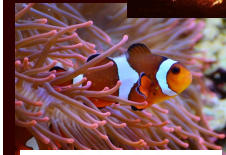
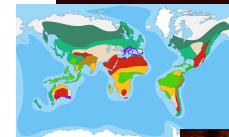
SC.7-4. Ecology: The Biotic & Abiotic Environment

Includes:

- 4 weeks of teaching resources
- 11 Lessons in Office and Google

Resources Include:

- 1 Digital Interactive Notebook
- 3 Digital Scavenger Hunt Activities
- 6 Science Comprehension Readings
- 5 Lab Station Activities
- 3 Additional Activities



Thank You For Your Interest

Inside the Unit

- 4 weeks of teaching material
- 11 lessons
 - Biomass and Fossil Fuels
 - Biomes of the World
 - Biotic and Abiotic Influences
 - Cycle of Matter
 - Ecological Succession
 - Ecosystems
 - Energy Flow in Ecosystems
 - Invasive Species
 - Renewable Energy
 - The Water Table
 - Watersheds
- Videos embedded into your lessons
- Teacher and student versions for each lesson
- Student notes in Word and Google Doc

The diagram illustrates the components of the unit materials. It features two main boxes. The top box, titled "Teacher and Student Versions of the presentation", contains two smaller boxes labeled "Photosynthesis". Each "Photosynthesis" box includes text, a diagram of a plant, and the chemical equation: $\text{carbon dioxide} + \text{water} \xrightarrow{\text{light energy}} \text{sugar} + \text{oxygen}$. Red arrows point from these boxes to a larger box below titled "Videos embedded directly into the slides". This bottom box contains two smaller boxes: "Sustainability" and "Ecosystems". The "Sustainability" box includes text, a photo of an oil spill, and a video icon. The "Ecosystems" box includes text, a photo of a river, and a video icon. Red arrows point from these video icons to the "Videos embedded directly into the slides" box.

Photosynthesis

- The process where the Sun's energy is converted into chemical energy (sugars/starch)
- Occurs in all plants (autotrophs)
- Producer – an organism that makes its own energy-rich food compounds using the Sun's energy
- On land, major producers are green plants, which contain chlorophyll inside their chloroplasts that capture light energy and create sugar

$\text{carbon dioxide} + \text{water} \xrightarrow{\text{light energy}} \text{sugar} + \text{oxygen}$

Teacher and Student Versions of the presentation

Ecosystems

An ecosystem is a term given to the community and its interactions with the abiotic (never-living) environment.

Sustainability

The actions of humans can make a previous ecosystem, unsustainable e.g. oil spills go previously stable ecosystem.

Videos embedded directly into the slides

Thank You For Your Interest

Aside from the lessons, the package also contains:

- 1 Digital Interactive Notebook
- 3 Digital Scavenger Hunt Activities
- 6 Science Comprehension Readings
- 5 Lab Station Activities
- 3 Additional Activities

