

Climate Literacy: The Essential Principles of Climate Science (USGCRP, 2009)

Gap and Thin Spot Analysis of the CLEAN Collection of Educational Resources

Essential Principle 4 (EP4)

Climate varies over space and time through both natural and man-made processes.

Number of Resources in CLEAN Collection

- (#) Total Number of Resources
- (#) Middle School
- (#) High School
- (#) College

Some resources are relevant to multiple grade levels; therefore the total (#) is less than sum of (#), (#), (#).

EP 4A Climate is long-term	Activities ●●●●●●●●●●●●●● (12) (6) (9) (6) Videos ● (1) (1) (1) (1) Visualizations (0) Demos/Experiments (0) Total ●●●●●●●●●●●●●● (13) (7) (10) (7)
EP 4B Climate is not the same as weather	Activities ●●●●●●●● (8) (5) (6) (4) Videos ●● (2) (2) (2) (1) Visualizations (0) Demos/Experiments (0) Total ●●●●●●●●●● (10) (7) (8) (5)
EP 4C Climate change is a change in average climate conditions	Activities ●●●●●●●●●●●●●● (12) (5) (10) (7) Videos ●● (2) (2) (2) (1) Visualizations ●●● (3) (3) (3) (3) Demos/Experiments (0) Total ●●●●●●●●●●●●●●●● (17) (10) (15) (11)
EP 4D Global climate changes	Activities ●●●●●●●●●●●●●●●●●●●●●●●●●● (22) (12) (15) (12) Videos ●●●●● (5) (4) (5) (3) Visualizations ●● (2) (2) (2) (1) Demos/Experiments (0) Total ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (29) (18) (22) (16)
EP 4E Average temperatures have increased in the past 50 years	Activities ●●●●●●●●●●●●●●●● (13) (9) (8) (6) Videos ●●●●●●●●●●●● (10) (10) (10) (4) Visualizations ●●●●●● (6) (5) (6) (6) Demos/Experiments (0) Total ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (29) (24) (24) (16)
EP 4F Natural processes do not explain rapid climate change	Activities ●●● (3) (2) (3) (2) Videos ●● (2) (4) (5) (2) Visualizations ●● (2) (1) (2) (1) Demos/Experiments (0) Total ●●●●●●●●●● (10) (7) (10) (5)
EP 4G Natural removal of carbon dioxide from the atmosphere is slow	Activities ●●●● (4) (2) (3) (3) Videos ●●● (3) (3) (3) (2) Visualizations ● (1) (1) (1) (0) Demos/Experiments ● (1) (1) (1) (0) Total ●●●●●●●●●● (9) (7) (8) (5)
EP 4 Uncategorized	Activities ●●●●●● (6) (5) (4) (2) Videos ●●●● (4) (4) (4) (1) Visualizations ●●●● (4) (3) (4) (4) Demos/Experiments (0) Total ●●●●●●●●●●●●●● (14) (12) (12) (7)

Total Number of Unique Resources for EP4

●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (94)