

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 ●●●●●●●●●●●●●● (14) (7) (11) (8) Videos ●● (2) (2) (2) (2) Visualizations ●● (2) (2) (2) (2) Demos/Experiments (0)
Total ●●●●●●●●●●●●●●●●●● (18) (11) (15) (12)	
EP 4B Climate is not the same as weather	Activities ●●●●●●●● (9) (5) (6) (5) Videos ●●●●●● (6) (6) (6) (4) Visualizations ●●● (3) (3) (3) (3) Demos/Experiments (0)
Total ●●●●●●●●●●●●●●●●●● (18) (14) (15) (12)	
EP 4C Climate change is a change in average climate conditions	Activities ●●●●●●●●●●●●●● (14) (7) (12) (9) Videos ●●●●● (5) (5) (5) (4) Visualizations ●●●●●●● (7) (7) (7) (7) Demos/Experiments (0)
Total ●●●●●●●●●●●●●●●●●●●●●● (26) (19) (24) (20)	
EP 4D Global climate changes	Activities ●●●●●●●●●●●●●●●●●●●●●●●● (26) (16) (19) (16) Videos ●●●●●●●●●●●●●●●●●● (15) (12) (15) (12) Visualizations ●●●●● (5) (4) (5) (4) Demos/Experiments (0)
Total ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (46) (32) (39) (32)	
EP 4E Average temperatures have increased in the past 50 years	Activities ●●●●●●●●●● (10) (6) (6) (6) Videos ●●●●●●●●●●●●●●●●●●●●●● (17) (15) (17) (11) Visualizations ●●●●●●●●●● (10) (9) (10) (9) Demos/Experiments (0)
Total ●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (37) (30) (33) (26)	
EP 4F Natural processes do not explain rapid climate change	Activities ●●●● (4) (3) (4) (3) Videos ●●●●●●●●●●●●●● (12) (9) (11) (7) Visualizations ●●●●● (5) (4) (5) (3) Demos/Experiments ● (1) (1) (1) (0)
Total ●●●●●●●●●●●●●●●●●● (21) (16) (20) (13)	
EP 4G Natural removal of carbon dioxide from the atmosphere is slow	Activities ●●●● (4) (2) (3) (3) Videos ●●●●● (5) (4) (5) (3) Visualizations ●● (2) (2) (2) (0) Demos/Experiments ● (1) (1) (1) (0)
Total ●●●●●●●●●●●● (12) (9) (11) (6)	
EP 4 Uncategorized	Activities ●●●●●● (6) (5) (5) (3) Videos ●●●●● (5) (4) (5) (3) Visualizations ●●●●●● (6) (4) (6) (6) Demos/Experiments (0)
Total ●●●●●●●●●●●●●● (17) (13) (16) (12)	

Total Number of Unique Resources for EP4

●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (127)