

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

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

### Essential Principle 2 (EP2)

Climate is regulated by complex interactions among components of the Earth system.

Number of Resources in CLEAN Collection

● (#) Total Number of Resources

(#) Middle School

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

(#) High School

(#) College

<b>EP 2A</b> Interactions of Sun and Earth systems	Activities ●●●●●●●● (8) (5) (6) (4) Videos ●● (2) (2) (2) (0) Visualizations ● (1) (1) (1) (1) Demos/Experiments (0) <b>Total</b> ●●●●●●●●●● (11) (8) (9) (5)
<b>EP 2B</b> Hydrosphere, energy and climate	Activities ●●●●●●●●●● (11) (5) (7) (2) Videos ●●●●●●●●● (9) (7) (9) (4) Visualizations ●●●● (4) (4) (4) (2) Demos/Experiments (0) <b>Total</b> ●●●●●●●●●●●●●●●●●●●●●●●●●● (25) (16) (21) (9)
<b>EP 2C</b> Greenhouse gases trap outgoing IR heat	Activities ●●●●●●● (7) (4) (6) (3) Videos ●●●●●●●● (8) (8) (8) (3) Visualizations ●●●●●●●●●● (10) (7) (10) (6) Demos/Experiments (0) <b>Total</b> ●●●●●●●●●●●●●●●●●●●●●●●●●●●●● (25) (19) (24) (12)
<b>EP 2D</b> Biogeochemical / Carbon cycles	Activities ●●●●●●●●●●●● (12) (6) (7) (7) Videos ●●●●●●●●●●●●●● (13) (11) (2) (7) Visualizations ●●●●●●●●●●●●●●●●●●●● (17) (14) (17) (18) Demos/Experiments ●●● (3) (3) (3) (0) <b>Total</b> ●● (45) (34) (39) (22)
<b>EP 2E</b> Particulates' impact climate	Activities ●●●●● (5) (3) (4) (3) Videos ●●●●● (5) (5) (5) (2) Visualizations ●● (2) (2) (2) (1) Demos/Experiments (0) <b>Total</b> ●●●●●●●●●●●● (12) (10) (11) (6)
<b>EP 2F</b> Feedback systems	Activities ●●●●●●●● (8) (3) (5) (7) Videos ●●●●●●● (6) (5) (6) (4) Visualizations ●●●●●●● (6) (6) (6) (2) Demos/Experiments (0) <b>Total</b> ●●●●●●●●●●●●●●●●●●●●●●● (20) (14) (17) (13)
<b>EP 2</b> Uncategorized	Activities ●●●●●●●●●●●●● (12) (4) (8) (7) Videos ●●●●●●●●●●● (10) (9) (8) (7) Visualizations ●●●●●●●●● (7) (5) (7) (4) Demos/Experiments ●● (1) (1) (1) (0) <b>Total</b> ●● (30) (19) (26) (18)

Total number of Unique Resources for EP2

