

# Energy Literacy: Essential Principles and Fundamental Concepts for Energy Education (DOE, 2012)

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

### Energy Literacy Principle 1 (ELP1)

Energy is a physical quantity

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 (#), (#), (#).

<b>ELP 1.1</b> Energy is a quantity	Activities <span style="color: blue;">●●●●●</span> (5) <span style="color: red;">(0)</span> <span style="color: green;">(3)</span> (3) Videos (0) Visualizations (0) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●●●●●</span> (5) <span style="color: red;">(0)</span> <span style="color: green;">(3)</span> (3)
<b>ELP 1.2</b> Thermal energy	Activities <span style="color: blue;">●●●●●●●●●●</span> (10) <span style="color: red;">(4)</span> <span style="color: green;">(7)</span> (2) Videos (0) Visualizations <span style="color: blue;">●●</span> (2) <span style="color: red;">(2)</span> <span style="color: green;">(2)</span> (0) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●●●●●●●●●●</span> (12) <span style="color: red;">(6)</span> <span style="color: green;">(9)</span> (2)
<b>ELP 1.3</b> Energy is neither created nor destroyed	Activities <span style="color: blue;">●●●●●</span> (5) <span style="color: red;">(2)</span> <span style="color: green;">(3)</span> (1) Videos (0) Visualizations <span style="color: blue;">●</span> (1) <span style="color: red;">(1)</span> <span style="color: green;">(1)</span> (0) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●●●●●</span> (6) <span style="color: red;">(3)</span> <span style="color: green;">(4)</span> (1)
<b>ELP 1.4</b> Energy quality degrades over	Activities (0) Videos (0) Visualizations (0) Demos/Experiments (0) <hr/> Total (0)
<b>ELP 1.5</b> Forms of energy	Activities <span style="color: blue;">●</span> (1) <span style="color: red;">(1)</span> <span style="color: green;">(0)</span> (0) Videos (0) Visualizations (0) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●</span> (1) <span style="color: red;">(1)</span> <span style="color: green;">(0)</span> (0)
<b>ELP 1.6</b> Chemical and nuclear reactions	Activities (0) Videos (0) Visualizations (0) Demos/Experiments (0) <hr/> Total (0)
<b>ELP 1.7</b> Units of energy	Activities <span style="color: blue;">●●●●●●●●●●</span> (9) <span style="color: red;">(7)</span> <span style="color: green;">(6)</span> (4) Videos (0) Visualizations <span style="color: blue;">●</span> (1) <span style="color: red;">(1)</span> <span style="color: green;">(1)</span> (1) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●●●●●●●●●</span> (10) <span style="color: red;">(8)</span> <span style="color: green;">(7)</span> (5)
<b>ELP 1.8</b> Power	Activities <span style="color: blue;">●</span> (1) <span style="color: red;">(0)</span> <span style="color: green;">(1)</span> (1) Videos (0) Visualizations (0) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●</span> (1) <span style="color: red;">(0)</span> <span style="color: green;">(1)</span> (1)
<b>ELP 1</b> Uncategorized	Activities <span style="color: blue;">●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●</span> (21) <span style="color: red;">(13)</span> <span style="color: green;">(12)</span> (8) Videos (0) Visualizations <span style="color: blue;">●●●</span> (3) <span style="color: red;">(3)</span> <span style="color: green;">(3)</span> (1) Demos/Experiments (0) <hr/> Total <span style="color: blue;">●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●</span> (24) <span style="color: red;">(16)</span> <span style="color: green;">(15)</span> (9)

<b>Total Number of Unique Resources for ELP 1</b>	<span style="color: blue;">●●●●●●●●●●●●●●●●●●●●●●●●●●●●●●</span> <span style="color: blue;">●●●●</span> (28)
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