



# Modeling: How is the CO<sub>2</sub> Level Changing?

STUDENT HANDOUT

## Appendix: Data Set for Lesson

Table 1: shows the monthly average levels of carbon dioxide in ppm measured at Mauna Loa, Hawaii, since 2006.

	<i>Mean monthly CO<sub>2</sub> levels (ppm)</i>							
<i>Month /year</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>2009</i>	<i>2010</i>	<i>2011</i>	<i>2012</i>	<i>2013</i>
<b>1</b>	381.38	382.89	385.44	386.94	388.50	391.25	393.12	395.51
<b>2</b>	382.19	383.90	385.73	387.42	389.94	391.82	393.60	396.79
<b>3</b>	382.67	384.58	385.97	388.77	391.09	392.49	394.45	397.31
<b>4</b>	384.61	386.50	387.16	389.44	392.53	393.34	396.18	398.35
<b>5</b>	385.03	386.56	388.50	390.19	393.04	394.21	396.78	399.76
<b>6</b>	384.05	386.10	387.88	389.45	392.15	393.72	395.83	398.58
<b>7</b>	382.46	384.50	386.43	387.78	390.22	392.42	394.30	397.20
<b>8</b>	380.41	381.99	384.15	385.92	388.26	390.19	392.41	395.15
<b>9</b>	378.85	380.96	383.09	384.79	386.83	389.04	391.06	393.51
<b>10</b>	379.13	381.12	382.99	384.39	387.20	388.96	391.01	393.66
<b>11</b>	380.15	382.45	384.13	386.00	388.65	390.24	392.81	395.11
<b>12</b>	381.82	383.95	385.56	387.31	389.73	391.83	394.28	396.81
	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>			
<b>1</b>	397.80	399.96	402.52	406.13	407.88			
<b>2</b>	397.91	400.26	404.04	406.42	408.61			
<b>3</b>	399.58	401.52	404.83	407.18	409.35			
<b>4</b>	401.29	403.26	407.42	409.00	410.80			
<b>5</b>	401.77	403.96	407.70	409.65	411.48			



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<b>6</b>	401.15	402.80	406.81	408.84	410.8			
<b>7</b>	399.00	401.30	404.39	407.07	409.05			
<b>8</b>	397.01	398.82	402.25	405.07	407.07			
<b>9</b>	395.26	397.64	401.03	403.38	405.48			
<b>10</b>	395.93	398.29	401.57	403.64	406.00			
<b>11</b>	397.13	400.16	403.53	405.14	407.98			
<b>12</b>	398.78	401.85	404.42	406.82	409.27			

## Resources

*Our Changing Atmosphere* [www.exploratorium.edu/snacks/our-changing-atmosphere](http://www.exploratorium.edu/snacks/our-changing-atmosphere)

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