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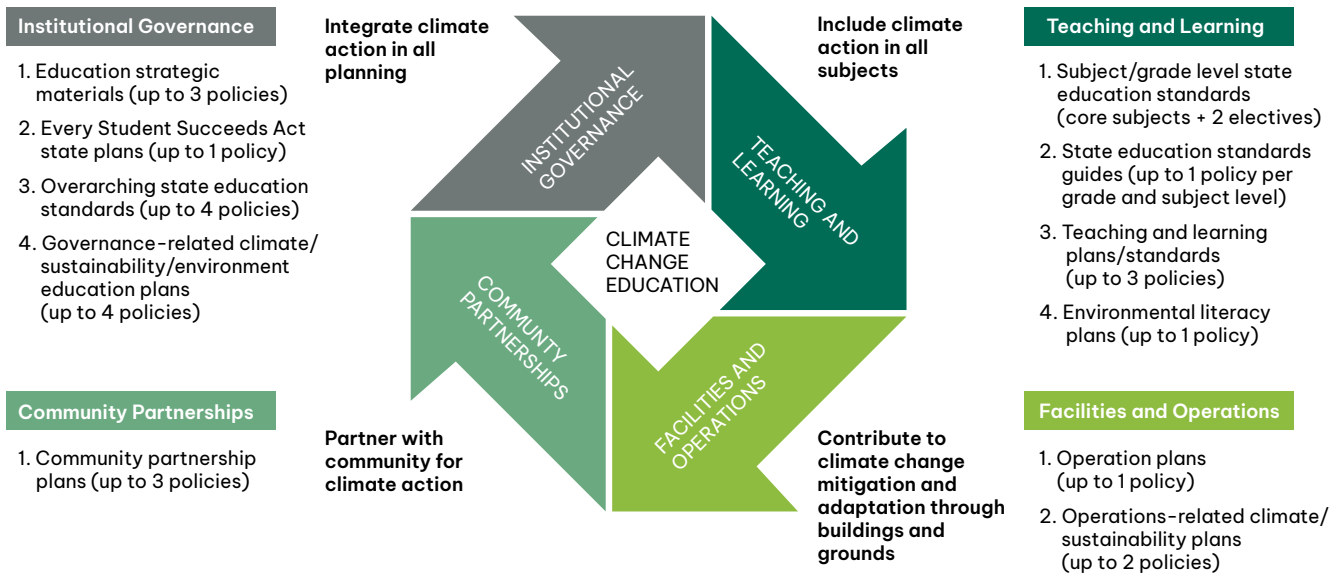
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For policy analysis, the extent and type of climate change inclusion in policies were examined, supported by NVivo 12 qualitative research software.<sup>f</sup> The relative frequency of climate change keywords within education policies was used to measure the extent of state-level inclusion of climate change in education policy.

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<sup>5</sup>O+&\$%&%) ('4+, O' \*3)'! , %72\*)' )'6''&2\*%+-%-' )' & \* + , + , \$ + &2\$'2''\*3+, %%) (E< <1' (&3+&\$'6%(\*, %&' (G'D,)' - + \*' & + \$ \$) & \* ) 6 < 1'2-62,6(4+, &2,)) , '2-6' \* ) &3 - %&2\$'  
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&+O! ,)3) - (%7) %\$(\*'+4'2\$ \*3)' (\*2-62,6(')6'4+, '2&2,)) , '&\$' (\*) ,



**Figure 1. A whole institution approach to climate change education framework and the policy types collected within each domain.**



The keywords were divided into clusters that represent different ways climate change can be engaged in K-12 education (see Table 1). Due to few results returned for climate justice, mitigation, and adaptation, more detailed searches were conducted for related keywords within one paragraph of the word *climate* to capture broader climate change content at the paragraph level. Keywords related to the United Nations (UN) were also searched within one paragraph of the word *climate* to determine if/how key UN policy initiatives were referenced in the policies.

<sup>f</sup> To consider varying policy lengths and numbers of policies per state, keyword frequencies were standardized by 1,000,000 words.



**Table 1. Keyword clusters searched using NVivo 12.**

<b>Climate Change-Overall:</b>			
<ul style="list-style-type: none"> <li>• “climate change”</li> <li>• “climate hazard*”</li> <li>• “climate impact*”</li> <li>• “climate vulnerable*”</li> <li>• “climate action*”</li> </ul>	<ul style="list-style-type: none"> <li>• “climate resilience”</li> <li>• “carbon footprint*”</li> <li>• “global warming”</li> <li>• “GHG emission*”</li> <li>• “greenhouse gas emission*”</li> </ul>	<ul style="list-style-type: none"> <li>• “CO<sub>2</sub> emission*”</li> <li>• “carbon dioxide emission*”</li> <li>• “low emission*”</li> <li>• “net-zero emission*”</li> </ul>	<ul style="list-style-type: none"> <li>• “carbon neutral”</li> <li>• “climate mitigation*”</li> <li>• “climate adaptation*”</li> <li>• “just transition*”</li> <li>• “climate justice”</li> </ul>
<b>Green Schools:</b>	<b>Environmental or Climate Change Laws:</b>	<b>Energy:</b>	<b>Environmental Protection Agency:</b>
<ul style="list-style-type: none"> <li>• “green school*”</li> <li>• “green ribbon school*”</li> <li>• “eco school*”</li> <li>• “eco certification*”</li> </ul>	<ul style="list-style-type: none"> <li>• “climate change law*”</li> <li>• “climate change education law*”</li> <li>• “climate law*”</li> <li>• “climate action law*”</li> <li>• “environment* law*”</li> <li>• “environment* education law*”</li> </ul>	<ul style="list-style-type: none"> <li>• “fossil fuel*”</li> <li>• “renewable energy*”</li> <li>• “renewable resource*”</li> <li>• “alternative energy*”</li> </ul>	<ul style="list-style-type: none"> <li>• EPA</li> <li>• “Environmental Protection Agency”</li> </ul>
<b>Keywords searched within one paragraph of the word “climate”</b>			
<b>Justice:</b>		<b>Adaptation and Mitigation:</b>	<b>United Nations:</b>
<ul style="list-style-type: none"> <li>• justice</li> <li>• civics</li> <li>• citizenship</li> <li>• vulnerable</li> <li>• “social movement*”</li> </ul>	<ul style="list-style-type: none"> <li>• protest*</li> <li>• strike*</li> <li>• disproportionate</li> <li>• “at risk”</li> <li>• marginalized</li> </ul>	<ul style="list-style-type: none"> <li>• mitigate</li> <li>• mitigation</li> <li>• mitigating</li> <li>• adapt</li> <li>• adaptation</li> <li>• adapting</li> </ul>	<ul style="list-style-type: none"> <li>• UNFCCC (&amp; spelled out)</li> <li>• UN (&amp; spelled out)</li> <li>• “Paris Agreement”</li> <li>• ACE (&amp; spelled out)</li> <li>• “2030 Agenda”</li> <li>• SDG (&amp; spelled out)</li> <li>• “Kyoto Protocol”</li> <li>• “Doha Work Programme”</li> <li>• UNESCO (&amp; spelled out)</li> </ul>

\*Indicates multiple variations of the word or words were included in the search