

Science Grade 4 June 2020

Science Grade 4 Physical Science: Light (LI)								
LI4.1 Investigate the characteristics and physical properties of natural and artificial sources of light in the environment.	Natural	I can carry out processes     to identify some of the     characteristics OR     physical properties of     natural light in the     environment, with help.	I can carry out simple     processes with some     accuracy to identify some     of the characteristics OR     physical properties of     natural light in the     environment.	I can carry out processes accurately to identify many characteristics     AND physical properties of natural light in the environment.	I can design and carry     out a process to show a     particular characteristic     OR physical property of     natural light in the     environment.			
	Artificial	I can carry out processes     to identify some     characteristics OR     physical properties of     artificial light in the     environment, with help.	I can carry out simple processes with some accuracy to identify some characteristics OR physical properties of artificial light in the environment.	I can carry out processes accurately to identify many characteristics     AND physical properties of artificial light in the environment.	I can design and carry     out a process to show a     particular characteristic     OR physical property of     artificial light in the     environment.			

Comments



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Sc	cience Grade 4							
Physical Science: Light (LI)								
1 - Beginning The student is having difficulty demonstrating an understanding of the concept.	2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4-Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.					
<ul> <li>I can classify opaque, transparent, and translucent materials.</li> <li>I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects.</li> </ul>	I can classify opaque, transparent, and translucent materials and explain some of the differences.  I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects, and explain some of the differences.	<ul> <li>I can classify and explain the differences between opaque, transparent, and translucent materials.</li> <li>I can classify and explain the difference between shadows, reflection, refraction, and dispersion as light interacts with different objects.</li> </ul>	<ul> <li>I can compare how light interacts with opaque, transparent, and translucent objects.</li> <li>I can compare how light interacts with different objects to create shadows, reflections, refractions, and dispersion of light.</li> </ul>					
With help, I can demonstrate how light interacts with various objects.	I can demonstrate how light interacts with various objects.	I can demonstrate and explain how light interacts with various objects.	I can demonstrate a few practical applications of how light interacts with various objects.					
	Physic  1 - Beginning The student is having difficulty demonstrating an understanding of the concept.  • I can classify opaque, transparent, and translucent materials.  • I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects.  • With help, I can demonstrate how light	Science Grade 4 Physical Science: Light (LI  1 - Beginning The student is having difficulty demonstrating an understanding of the concept.  • I can classify opaque, transparent, and translucent materials.  • I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects.  • With help, I can demonstrate how light interacts with	Science Grade 4  Physical Science: Light (LI)  1 - Beginning The student is having difficulty demonstrating an understanding of the concept.  • I can classify opaque, transparent, and translucent materials.  • I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects.  • With help, I can demonstrate how light  S - Approaching The student is developing an understanding of the concept.  1 - Approaching The student is developing an understanding of the concept.  3 - Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.  1 - I can classify opaque, transparent, and translucent materials and explain some of the differences.  1 - I can identify shadows, reflection, refraction, OR dispersion as light interacts with different objects, and explain some of the differences.  1 - I can classify and explain the difference between shadows, reflection, refraction, and dispersion as light interacts with differences.  1 - I can demonstrate how light interacts with					



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Outcome demonstrating an		2 – Approaching The student is developing an understanding of the concept.	3 – Meeting The student consistently demonstrates an understanding of the concept or has achieved the concept.	4-Exemplary The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.				
Personal impact	<ul> <li>I can identify a few positive and negative impacts of light-related technological innovations on people.</li> </ul>	I can identify some     positive and negative     impacts of light-related     technological     innovations, including     optical devices, on     people.	I can explain the positive and negative impacts of light-related technological innovations, including optical devices, on people.	• I can recommend a light- related technological innovation for my own use, with examples and details for support.				
Societal impact	I can identify a few positive and negative impacts of light-related technological innovations on society.	I can identify some     positive and negative     impacts of light-related     technological innovations     including optical devices     on society.	I can explain the positive and negative impacts of light-related technological innovations including optical devices on society.	I can recommend a light- related technological innovation for use in society, with examples and details for support.				
Environmental Impact	I can identify a few positive and negative impacts of light-related technological innovations on the environment.	I can identify some     positive and negative     impacts of light-related     technological innovations     including optical devices     on the environment.	I can explain the positive and negative impacts of light-related technological innovations including optical devices on the environment.	I can recommend a light-related technological innovation for use in the environment with minimal negative impact, with examples and details for support.				
	Personal impact  Societal impact	Personal impact  Societal impact  Societal impact  Personal impact  Personal impact  Personal impact  Personal impact  Societal impact  Personal impact  Societal impact  Personal impact  Personal impact  Personal impact  I can identify a few positive and negative impacts of light-related technological innovations on society.  Personal impact impacts of light-related technological innovations on society.	Personal impact  Societal impact  Societal impact  Societal impact  Personal impact  Personal impact  Societal impact  Societ	Personal impact  Personal impact  Output  Personal impact  Output  Output  Personal impact  Personal impact  Output  O				