

Science Grade 8 Physical Science: Optics and Vision (OP)				
Outcome	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.
OP8.1 I can identify and describe, through experimentation, sources and properties of visible light including: <ul style="list-style-type: none"> ○ rectilinear propagation ○ reflection ○ refraction 	<ul style="list-style-type: none"> • I can identify natural and artificial sources of light, with help. 	<ul style="list-style-type: none"> • I can identify natural and artificial sources of light. 	<ul style="list-style-type: none"> • I can identify and describe natural and artificial sources of light. 	<ul style="list-style-type: none"> • I can compare natural and artificial sources of light using detailed examples of each.
	<ul style="list-style-type: none"> • I can identify some properties of light, including rectilinear propagation, reflection, OR refraction, using the results of my experimentation, with help. 	<ul style="list-style-type: none"> • I can identify some properties of light, including rectilinear propagation, reflection, OR refraction, using the results of my experimentation. 	<ul style="list-style-type: none"> • I can identify and describe properties of light, including rectilinear propagation, reflection, AND refraction, using the results of my experimentation. 	<ul style="list-style-type: none"> • I can identify and describe properties of light, including rectilinear propagation, reflection, AND refraction, using the results of my experimentation, AND explain their use in everyday life.
Comments				

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OP8.2 I can explore properties and applications of optics-related technologies, including concave and convex mirrors and lenses.	Properties	<ul style="list-style-type: none"> I can identify properties of optics-related technologies, including concave OR convex mirrors and lenses, based on evidence I have gathered, with help. 	<ul style="list-style-type: none"> I can identify a few properties of optics-related technologies, including concave OR convex mirrors and lenses, based on evidence I have gathered. 	<ul style="list-style-type: none"> I can identify and describe many properties of optics-related technologies, including concave AND convex mirrors and lenses, based on convincing evidence I have gathered. 	<ul style="list-style-type: none"> I can compare the properties of optics-related technologies, including concave AND convex mirrors and lenses, based on extensive evidence I have gathered. 	
	Applications	<ul style="list-style-type: none"> I can list some uses of optics-related technologies, with help. 	<ul style="list-style-type: none"> I can list some uses of optics-related technologies. 	<ul style="list-style-type: none"> I can explain how the properties of optics-related technologies, including concave and convex mirrors and lenses, allow them to be of practical use. 	<ul style="list-style-type: none"> I can demonstrate many practical applications of optics-related technologies, including concave and convex mirrors and lenses. 	
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OP8.3 I can compare the nature and properties of human vision with optical devices and vision in other living organisms.	<ul style="list-style-type: none"> • I can list some similarities and differences between the nature and properties of human vision and vision in a few other living organisms, with help. 	<ul style="list-style-type: none"> • I can list some similarities and differences between the nature and properties of human vision and vision in a few other living organisms. 	<ul style="list-style-type: none"> • I can describe the similarities and differences between the nature and properties of human vision and vision in other living organisms. 	<ul style="list-style-type: none"> • I can use my understanding of the similarities and differences between the nature and properties of human vision and vision in other living organisms to propose solutions to a few practical challenges.
	<ul style="list-style-type: none"> • I can list some similarities and differences between the nature and properties of human vision and optical devices, with help. 	<ul style="list-style-type: none"> • I can list some similarities and differences between the nature and properties of human vision and optical devices. 	<ul style="list-style-type: none"> • I can describe the similarities and differences between the nature and properties of human vision and optical devices. 	<ul style="list-style-type: none"> • I can use my understanding of the similarities and differences between the nature and properties of human vision and optical devices to propose solutions to a few practical challenges.
Comments				

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<p>OP8.4 I can evaluate the impact of electromagnetic radiation-based technologies on self and community.</p>	<p>Self</p>	<ul style="list-style-type: none"> I can list some positive and negative impacts of electromagnetic radiation-based technologies on me, with help. 	<ul style="list-style-type: none"> I can list some positive and negative impacts of electromagnetic radiation-based technologies on me. 	<ul style="list-style-type: none"> I can explain many positive and negative impacts of electromagnetic radiation-based technologies on me. 	<ul style="list-style-type: none"> I can make and defend judgments about the impacts of electromagnetic radiation-based technologies on me.
	<p>Community</p>	<ul style="list-style-type: none"> I can list some positive and negative impacts of electromagnetic radiation-based technologies on communities, with help. 	<ul style="list-style-type: none"> I can list some positive and negative impacts of electromagnetic radiation-based technologies on communities 	<ul style="list-style-type: none"> I can explain many positive and negative impacts of electromagnetic radiation-based technologies on communities. 	<ul style="list-style-type: none"> I can make and defend judgments about the impacts of electromagnetic radiation-based technologies on communities.
<p>Comments</p>					