



Science Grade 8 Physical Science: Optics and Vision (OP)				
Outcome	1 – Little Evidence With help, I understand parts of the simpler ideas and do a few of the simpler skills.	2 – Partial Evidence I understand the simpler ideas and can do the simpler skills. I am working on the more complex ideas and skills.	3 – Sufficient Evidence I understand the more complex ideas and can master the complex skills that are taught in class. I achieve the outcome.	4- Extensive Evidence I have a deep understanding of the complex ideas, and I can use the skills I have learned in situations that were not taught in class.
OP8.1 I can identify and describe, through experimentation, sources and properties of visible light including: ○ rectilinear propagation ○ reflection ○ refraction	• I can identify natural and artificial sources of light, with help.	• I can identify natural and artificial sources of light.	• I can identify and describe natural and artificial sources of light.	• I can compare natural and artificial sources of light using detailed examples of each.
	• I can identify some properties of light , including rectilinear propagation, reflection, OR refraction, using the results of my experimentation, with help.	• I can identify some properties of light , including rectilinear propagation, reflection, OR refraction, using the results of my experimentation.	• I can identify and describe properties of light , including rectilinear propagation, reflection, AND refraction , using the results of my experimentation.	• 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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OP8.4 I can evaluate the impact of electromagnetic radiation-based technologies on self and community.	Self	• I can list some positive and negative impacts of electromagnetic radiation-based technologies on me, with help.	• I can list some positive and negative impacts of electromagnetic radiation-based technologies on me.	• I can explain many positive and negative impacts of electromagnetic radiation-based technologies on me.	• I can make and defend judgments about the impacts of electromagnetic radiation-based technologies on me.
	Community	• I can list some positive and negative impacts of electromagnetic radiation-based technologies on communities, with help.	• I can list some positive and negative impacts of electromagnetic radiation-based technologies on communities	• I can explain many positive and negative impacts of electromagnetic radiation-based technologies on communities.	• I can make and defend judgments about the impacts of electromagnetic radiation-based technologies on communities.
Comments					