

Science Grade 5				
Physical Science: Forces and Simple Machines (FM)				
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.
FM5.1 Analyze the effects of gravitational, magnetic, and mechanical forces, including friction, on the movement of objects.	<ul style="list-style-type: none"> I use some experimentation, measurement, OR data, to show the difference between contact and non-contact forces. 	<ul style="list-style-type: none"> I use experimentation, measurement, OR data to give several examples of the effects of contact and non-contact forces on the movement of objects. 	<ul style="list-style-type: none"> I use experimentation, measurement, AND data to give examples of the effects of contact and non-contact forces on the movement of objects. 	<ul style="list-style-type: none"> I use experimentation, measurement, data, AND research to give examples of the effects of contact and non-contact forces on the movement of objects.
	<ul style="list-style-type: none"> I can give examples of gravitational, magnetic, OR mechanical forces, including friction.. 	<ul style="list-style-type: none"> I can give examples of gravitational, magnetic, AND mechanical forces, including friction. 	<ul style="list-style-type: none"> I can distinguish the effects of gravitational, magnetic, AND mechanical forces, including friction, on the movement of objects. 	<ul style="list-style-type: none"> I can compare the effects of gravitational, magnetic, AND mechanical forces, including friction in various conditions or situations.
	<ul style="list-style-type: none"> I can use a few specific vocabulary words in my analyses. 	<ul style="list-style-type: none"> I can use some specific vocabulary in my analyses. 	<ul style="list-style-type: none"> I can use many specific vocabulary in my analyses. 	<ul style="list-style-type: none"> I can use extensive specific vocabulary in my analyses.
Comments				

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FM5.2 Investigate characteristics of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, and wedges, for moving and lifting loads.	<ul style="list-style-type: none"> I can carry out simple processes to determine a few characteristics of some simple machines including levers, wheels and axles, pulleys, inclined planes, screws, OR wedges. 	<ul style="list-style-type: none"> I can carry out simple processes with some accuracy to determine a few characteristics of some simple machines including levers, wheels and axles, pulleys, inclined planes, screws, OR wedges. 	<ul style="list-style-type: none"> I can carry out processes accurately to determine the characteristics of simple machines including levers, wheels and axles, pulleys, inclined planes, screws, and wedges. 	<ul style="list-style-type: none"> I can design and carry out an accurate investigation to determine the characteristics of simple machines including levers, wheels and axles, pulleys, inclined planes, screws, and wedges.
	<ul style="list-style-type: none"> I can identify a few characteristics of simple machines including levers, wheels and axles, pulleys, inclined planes, screws, OR wedges. 	<ul style="list-style-type: none"> I can identify the characteristics of simple machines including levers, wheels and axles, pulleys, inclined planes, screws, AND wedges. 	<ul style="list-style-type: none"> I can differentiate with examples many of the operating principles of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, AND wedges. 	<ul style="list-style-type: none"> I can compare the use of simple machines, including levers, wheels and axles, pulleys, inclined planes, screws, AND wedges in various conditions or situations.
Comments				

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FM5.3 Assess how natural and man-made forces and simple machines affect individuals, society, and the environment.	<ul style="list-style-type: none"> I can identify a few benefits and challenges of the effects of natural OR man-made forces on me, my community, OR the environment. 	<ul style="list-style-type: none"> I can identify a few benefits and challenges of the effects of natural AND man-made forces on me, my community, OR the environment. 	<ul style="list-style-type: none"> I can explain several benefits and challenges of the effects of natural AND man-made forces on me, my community, AND the environment. 	<ul style="list-style-type: none"> I can explain several benefits and challenges of the effects of natural AND man-made forces on me, my community, AND the environment, AND propose potential future impacts.
	<ul style="list-style-type: none"> I can explain a few benefits and challenges of the effects of simple machines on me, my community, OR the environment, with help. 	<ul style="list-style-type: none"> I can explain a few benefits and challenges of the effects of simple machines on me, my community, OR the environment. 	<ul style="list-style-type: none"> I can explain several benefits and challenges of the effects of simple machines on me, my community, AND the environment. 	<ul style="list-style-type: none"> I can explain several benefits and challenges of the effects of simple machines on me, my community, AND the environment, AND propose potential future impacts.
Comments				