

<p style="text-align: center;"><b>Science Grade 8</b></p> <p style="text-align: center;"><b>Physical Science: Forces, Fluids, and Density (FD)</b></p>					
<b>Outcome</b>		<p><b>1 - Beginning</b> The student is having difficulty demonstrating an understanding of the concept.</p>	<p><b>2 – Approaching</b> The student is developing an understanding of the concept.</p>	<p><b>3 – Meeting</b> The student consistently demonstrates an understanding of the concept or has achieved the concept.</p>	<p><b>4- Exemplary</b> The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.</p>
<p><b>FD8.1</b> I can investigate and represent the density of solids, liquids, and gases based on the particle theory of matter.</p>	<p><b>Investigate</b></p>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes</b> to illustrate the relationship between mass, volume, and density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out simple processes with some accuracy</b> to illustrate the relationship between mass, volume, and density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>carry out processes accurately</b> to illustrate the <b>relationship between mass, volume, and density</b> of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation</b> to illustrate the relationship between mass, volume, and density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>
	<p><b>Represent</b></p>	<ul style="list-style-type: none"> <li><b>With developing accuracy, and with help,</b> I can <b>record and interpret data</b> related to the density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li><b>With developing accuracy,</b> I can <b>record and interpret data</b> related to the density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>accurately record and interpret data</b> related to the density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>	<ul style="list-style-type: none"> <li>I can accurately record, interpret, and <b>evaluate</b> data related to the density of solids, liquids, and gases based on the particle theory of matter.</li> </ul>
<p>Comments</p>					

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<b>Outcome</b>	<b>1 - Beginning</b> The student is having difficulty demonstrating an understanding of the concept.	<b>2 – Approaching</b> The student is developing an understanding of the concept.	<b>3 – Meeting</b> The student consistently demonstrates an understanding of the concept or has achieved the concept.	<b>4- Exemplary</b> The student independently demonstrates an in-depth understanding of the concept, and consistently applies this knowledge to new situations.
<b>FD8.2</b> <b>I can examine the effects of forces in and on objects in fluids, including the buoyant force.</b>	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can <b>identify some</b> effects that forces have in <b>OR</b> on objects that are in fluids, including the force of buoyancy</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some</b> effects that forces have in <b>OR</b> on objects that are in fluids, including the force of buoyancy.</li> </ul>	<ul style="list-style-type: none"> <li>• I can demonstrate the effects that forces have in <b>AND</b> on objects that are in fluids, <b>including the force of buoyancy.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>apply</b> my knowledge of the effects that forces have in <b>AND</b> on objects that are in fluids, including the force of buoyancy, <b>to real world situations.</b></li> </ul>
Comments				

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<p><b>FD8.3</b> I can investigate and describe physical properties of fluids (liquids and gases), including viscosity and compressibility.</p>	Investigate	<ul style="list-style-type: none"> <li>I can carry out <b>simple processes</b> that describe <b>a few physical properties of fluids</b>, including viscosity <b>OR</b> compressibility.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out <b>simple processes with developing accuracy</b> that describe <b>a few physical properties of fluids</b>, including viscosity <b>OR</b> compressibility.</li> </ul>	<ul style="list-style-type: none"> <li>I can carry out <b>processes accurately that describe the physical properties of fluids, including viscosity AND compressibility.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>design and carry out an accurate investigation</b> that describes the physical properties of fluids, including viscosity <b>AND</b> compressibility.</li> </ul>
	Describe	<ul style="list-style-type: none"> <li><b>With help</b> I can <b>describe a few of</b> the physical properties of fluids, including viscosity <b>OR</b> compressibility.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>describe a few of</b> the physical properties of fluids, including viscosity <b>OR</b> compressibility.</li> </ul>	<ul style="list-style-type: none"> <li>I can <b>describe in detail</b> the physical properties of fluids, <b>including viscosity AND compressibility.</b></li> </ul>	<ul style="list-style-type: none"> <li>I can <b>confidently</b> make connections between the physical properties of fluids, <b>including viscosity AND compressibility and</b> the particle theory of matter.</li> </ul>
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<b>FD8.4</b> I can identify and interpret the scientific principles underlying the functioning of natural and constructed fluid systems.	Identify	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can identify some of the scientific principles behind the mechanics of natural and man-made fluid systems.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>identify some of</b> the scientific principles behind the mechanics of natural and man-made fluid systems.</li> </ul>	<ul style="list-style-type: none"> <li>• I can <b>explain</b> with examples the scientific principles behind the mechanics of natural <b>AND</b> man-made fluid systems.</li> </ul>	<ul style="list-style-type: none"> <li>• I can compare natural <b>AND</b> man-made fluid systems using scientific principles.</li> </ul>	
	Interpret	<ul style="list-style-type: none"> <li>• <b>With help</b>, I can model the effective functioning of natural and man-made fluid systems by designing and <b>explaining</b> a prototype, using <b>SOME</b> given criteria.</li> </ul>	<ul style="list-style-type: none"> <li>• I can model the effective functioning of natural and man-made fluid systems by designing and <b>describing</b> a prototype, using <b>MANY</b> given criteria.</li> </ul>	<ul style="list-style-type: none"> <li>• I can model the effective functioning of natural and man-made fluid systems <b>by designing and explaining a prototype, using ALMOST ALL given criteria.</b></li> </ul>	<ul style="list-style-type: none"> <li>• I can model the effective functioning of natural and man-made fluid systems <b>by designing, constructing, testing and modifying a prototype, using ALL given criteria.</b></li> </ul>	
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