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Big Ideas	Details	Unit: Fluids & Pressure
AP®	Fluids	
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	NGSS Standards/MA Curriculum Frameworks (2016): HS-PS2-10(MA), HS-PS2-1 AP <sup>®</sup> Physics 1 Learning Objectives/Essential Knowledge (2024): 8.1A, 8.1.A.1, 8.1.A.2, 8.1.A.3, 8.1.A.4	
	Mastery Objective(s): (Students will be able to)	
	<ul> <li>Describe the characteristics of a fluid</li> </ul>	
	Success Criteria:	
	<ul> <li>Fluids are described in terms of properties of the p</li> </ul>	particles and density.
	Language Objectives:	
	<ul> <li>Understand and correctly use the terms "fluid" and physics.</li> </ul>	d "density" as they apply in
	Tier 2 Vocabulary: fluid	
	Notes:	
	<u>fluid</u> : a substance that has no fixed (definite) shape; a su	ibstance that can flow
	<u>flow</u> : the process of the individual particles of a fluid mo another.	wing from one place to
	When a fluid is flowing, particles of the fluid are in exoccupied by the fluid.	very location that is
	density ( $\rho$ ) : the mass of a given volume of a substance.	
	$\rho = \frac{m}{V}$	
	The density of water varies with temperature (see <i>To and Air</i> on page 568). Unless otherwise stated, we w	
	of fresh water is $1000 \frac{\text{kg}}{\text{m}^3}$ (which equals $1 \frac{\text{g}}{\text{cm}^3}$ ). This	approximation is within
	1 %, up to a temperature of 50 °C.	
	<u>specific gravity</u> : the ratio of the density of a fluid to the d a specific gravity of 1.	lensity of water. Water has
	viscosity: a fluid's resistance to flow. A low-viscosity flui easily. A high-viscosity fluid, such as honey, does not	
	ideal fluid: an imaginary fluid that is incompressible and	has no viscosity.
	In this course we will consider fluids to be ideal unles to simplify the calculations.	ss stated otherwise, in order
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Use this space for summary and/or additional notes: