

# AP Physics 2 Calendar—2016

Aug./Sept.

Day	Date	In-Class activity	Other
<b>M</b>	<b>22</b>	Intro/Mechanical Universe 45/ LoCoE Review	
<b>T</b>	<b>23</b>	Lecture: Temp Scales, Heat as Energy, 3 Methods of Heat Xfer	
<b>W</b>	<b>24</b>	WS: DB Thermal Conduction WS: A Little More Convection	
<b>Th</b>	<b>25</b>	Mini-Lab: Temp Scales & Heat Xfer	
<b>F</b>	<b>26</b>	Lecture: Kinetic Theory WSs: DB Kinetic Theory (2)	
<b>M</b>	<b>29</b>	Lab Sim: Bouncing Off the Walls	
<b>T</b>	<b>30</b>	Lecture: Ideal Gas Law	
<b>W</b>	<b>31</b>	WS: Temp Scales & Ideal Gas Law	
<b>Th</b>	<b>1</b>	Lecture: 1 <sup>st</sup> Law of Thermo WS: DB 1 <sup>st</sup> Law	
<b>F</b>	<b>2</b>	WS: Internal Energy—It's a Gas	
<b>M</b>	<b>5</b>	OFF—Labor Day Institute Day	
<b>T</b>	<b>6</b>	Lecture: PV Diagrams & Parts of Cycles	
<b>W</b>	<b>7</b>	WS: Step-by-step PV Diagrams WS: PV Practice #1	HW: Back side of PV Practice #1
<b>Th</b>	<b>8</b>	WSs: DB PV Processes	
<b>F</b>	<b>9</b>	Lecture: Cycles & the 1 <sup>st</sup> Law	
<b>M</b>	<b>12</b>	VID: YouTube—LOL Diagrams Online HWTime	
<b>T</b>	<b>13</b>	Mini-Lecture: LOL Diagrams & Carnot Efficiency	
<b>W</b>	<b>14</b>	WS: PV Practice #2 WS: From PV Diagrams with Love	
<b>Th</b>	<b>15</b>	Online HWTime	
<b>F</b>	<b>16</b>	Lecture: Entropy	
<b>M</b>	<b>19</b>	<b>REVIEW</b>	
<b>T</b>	<b>20</b>	<b>THERMO TEST</b>	
<b>W</b>	<b>21</b>	Lecture: Density, Pressure, $P_{\text{gauge}}$ VID: Crash Course (Fluids @Rest)	
<b>Th</b>	<b>22</b>	Lab: Fluid Exploration	
<b>F</b>	<b>23</b>	Lab: Fluid Exploration (Day 2)	

Sept./Oct.

Day	Date	In-Class activity	Other
<b>M</b>	<b>26</b>	Lecture: Pascal's & Archimedes' Principles	
<b>T</b>	<b>27</b>	WS: Drink Plenty of Fluids	
<b>W</b>	<b>28</b>	Online HWTime	
<b>Th</b>	<b>29</b>	Lab: Fluid Statics Lab	
<b>F</b>	<b>30</b>	Lab: Fluid Statics Lab (Day 2)	
<b>M</b>	<b>3</b>	Lecture: Continuity & Bernoulli	
<b>T</b>	<b>4</b>	WS: Three Dense Guys	
<b>W</b>	<b>5</b>	Online HWTime & Start Review	
<b>Th</b>	<b>6</b>	<b>REVIEW</b>	
<b>F</b>	<b>7</b>	<b>FLUIDS TEST</b>	
<b>M</b>	<b>10</b>	Lab: Reflection Exploration	
<b>T</b>	<b>11</b>	Mini-Lab: DB Reflections I Lecture: Law of Refl/Plane Mirrors	
<b>W</b>	<b>12</b>	WS: Can't Get Much "Planar" Mini-Lecture: Concave, Convex, $f$	
<b>Th</b>	<b>13</b>	Mini-Lab: DB Reflections II Lecture: Concave/Convex Ray Diags.	
<b>F</b>	<b>14</b>	Lecture: Finish Concave/Convex and Mirror Equation	HW: Rules for Ray Tracing
<b>M</b>	<b>17</b>	WS: Concave Mirror Math & Plane Old Concave Mirrors	
<b>T</b>	<b>18</b>	Lecture: Index of Refraction, and $c$ WS: DB Snell's Law	
<b>W</b>	<b>19</b>	Lecture: Snell's Law	HW: Simple Refraction WS
<b>Th</b>	<b>20</b>	OFF—Institute Day	
<b>F</b>	<b>21</b>	OFF—Institute Day	
<b>M</b>	<b>24</b>	Mini-Lecture: Critical Angle WS: DB Using Snell's Law	
<b>T</b>	<b>25</b>	Lecture: Lenses & Ray Diagrams	HW: DB Number Crunching WS
<b>W</b>	<b>26</b>	Lab: New Olde Candlelight Lab	
<b>Th</b>	<b>27</b>	WS: Problem with Lenses Is... Online HWTime	
<b>F</b>	<b>28</b>	WS: General Wave Review	