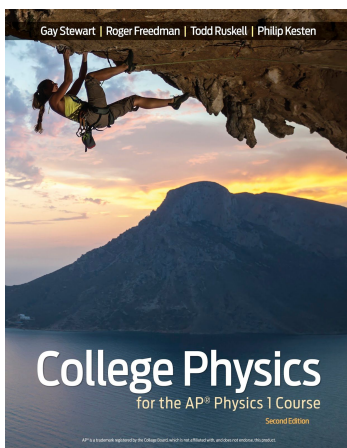




**2019 AP<sup>®</sup> Physics 1 Course Framework Alignment to  
Stewart, College Physics for the AP<sup>®</sup> Physics 1 Course, 2nd edition**



Chapter	Essential Knowledge Statements	Learning Objectives	Coverage in Stewart 2E
1	NA	NA	NA
2	EK 3.A.1.a.b.c.f	3.A.1.1, 3.A.1.2, 3.A.1.3	2-1, 2-2, 2-3, 2-4, 2-5, 2-6
	EK 4.A.1.a	4.A.1.1	2-1, 2-2, 2-3, 2-4, 2-5, 2-6
	EK 4.A.2.c, d.	4.A.2.1, 4.A.2.3	2-1, 2-2, 2-3, 2-4, 2-5, 2-6
3	EK 3.A.1.a.b.c.f	3.A.1.1, 3.A.1.2, 3.A.1.3	3-1, 3-2, 3-3, 3-4, 3-5, 3-6
	EK 4.A.1.a	4.A.1.1	3-1, 3-2, 3-3, 3-4, 3-5, 3-6
	EK 4.A.2.c.d	4.A.2.1, 4.A.2.3	3-1, 3-2, 3-3, 3-4, 3-5, 3-6
4	EK 1.C.1.a	1.C.1.1	4-2
	EK 2.B.1.a	2.B.1.1	4-3
	EK 3.A.2.a, b	3.A.2.1	4-1, 4-2, 4-4
	EK 3.A.3.a, b, c.	3.A.3.1, 3.A.3.2, 3.A.3.3	4-1, 4-2, 4-3, 4-4, 4-5, 4-6
	EK 3.A.4	3.A.4.1, 3.A.4.2, 3.A.4.3	4-4, 4-5, 4-6
	EK 3.B.1	3.B.1.1, 3.B.1.2, 3.B.1.3	4-2, 4-4, 4-6
	EK 3.B.2.a, b, c, d	3.B.2.1	4-4
	EK 4.A.2.a, b, c	4.A.2.2	4-2, 4-3, 4-4, 4-5, 4-6
	EK 4.A.3	4.A.3.1, 4A.3.2	4-2, 4-4, 4-5, 4-6
5	EK 3.C.2.a	No specific learning objective	5-1, 5-2
	EK 3.C.4	3.C.4.1, 3.C.4.2	5-1, 5-2, 5-3, 5-4
6	EK 1.C.2.a	Foundation for other LOs	6-4
	EK 1.C.3	1.C.3.1	6-4
	EK 2.A.1.a, b	Foundation for other LOs	6-4
	EK 2.B.1.a, b, c	2.B.1.1	6-4
	EK 2.B.2.a, b	2.B.2.1, 2.B.2.2	6-4
	EK 3.A.1.a, b, e, g, i	3.A.1.1, 3.A.1.2, 3.A.1.3	6-1, 6-2, 6-3
	EK 3.A.2.a, b	3.A.2.1	6-1, 6-2, 6-3, 6-4, 6-5, 6-6



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	EK 3.A.3.c	3.A.3.1, 3.A.3.2, 3.A.3.3	6-1, 6-2, 6-3
	EK 3.C.1.a, b, c	3.C.1.1, 3.C.1.2	6-4, 6-5, 6-6
	EK 3.G.1	3.G.1.1	6-4, 6-5, 6-6
	EK 4.A.2.a, b	4.A.2.2	6-2, 6-3, 6-4
<b>7</b>	EK 3.E.1	3.E.1.1, 3.E.1.2, 3.E.1.3, 3.E.1.4	7-2, 7-3, 7-4
	EK 4.C.1	4.C.1.1, 4.C.1.2	7-1, 7-2, 7-3, 7-4
	EK 4.C.2	4.C.2.1, 4.C.2.2	7-4, 7-5
	EK 5.A.2	5.A.2.1	7-1, 7-5
	EK 5.A.1		7-5
	EK 5.A.3	Foundation for other LO's	7-5
	EK 5.A.4		7-5
	EK 5.B.1	5.B.1.1, 5.B.1.2	7-6
	EK 5.B.2	5.B.2.1	7-5, 7-6
	EK 5.B.3	5.B.3.1, 5.B.3.2, 5.B.3.3	7-6
	EK 5.B.4	5.B.4.1, 5.B.4.2	7-6
	EK 5.B.5	5.B.5.1, 5.B.5.2, 5.B.5.3, 5.B.5.4, 5.B.5.5	7-2, 7-3, 7-5, 7-6
<b>8</b>	EK 4.C.1	4.C.1.1, 4.C.1.2	8-1, 8-2, 8-3, 8-4
	EK 4.C.2	4.C.2.1, 4.C.2.2	8-2, 8-3
	EK 5.A.2	5.A.2.1	8-1, 8-2, 8-3
	EK 5.A.3	Foundation for other LO's	8-3
	EK 5.B.2	5.B.2.1	8-3, 8-5
	EK 5.B.3	5.B.3.1, 5.B.3.2, 5.B.3.3	8-3, 8-5
	EK 5.B.4	5.B.4.1, 5.B.4.2	8-3, 8-5
	EK 5.B.5	5.B.5.1, 5.B.5.2, 5.B.5.4, 5.B.5.5	8-3, 8-4, 8-5
<b>9</b>	EK 3.D.1	3.D.1.1	9-1, 9-2
	EK 3.D.2.a, b	3.D.2.1, 3.D.2.2, 3.D.2.3, 3.D.2.4	9-6
	EK 4.B.1	4.B.1.1, 4.B.1.2	9-3
	EK 4.B.2.a, b	4.B.2.1, 4.B.2.2	9-3, 9-6, 9-7
	EK 5.A.2	5.A.2.1	9-3
	EK 5.D.1.a, b	5.D.1.1, 5.D.1.2, 5.D.1.3, 5.D.1.4, 5.D.1.5	9-4, 9-5, 9-6
	EK 5.D.2.a, b	5.D.2.1, 5.D.2.2, 5.D.2.3, 5.D.2.4, 5.D.2.5	9-4, 9-5
	EK 5.D.3.a, b, c	5.D.3.1	9-7
<b>10</b>	EK 3.A.1.a	3.A.1.1	10-1, 10-2, 10-5
	EK 3.F.1.a, b, c	3.F.1.1, 3.F.1.2, 3.F.1.3, 3.F.1.4, 3.F.1.5	10-3, 10-5, 10-6, 10-7
	EK 3.F.2.a, b, c	3.F.2.1, 3.F.2.2	10-2, 10-3, 10-5, 10-6
	EK 4.D.1	4.D.1.1, 4.D.1.2	10-1, 10-2, 10-6, 10-7



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	EK 5.A.1	Foundation for Other Learning Objectives	10-4
	EK 5.B.1	5.B.1.1, 5.B.1.2	10-4, 10-7
<b>11</b>	EK 3.F.3.a, b, c, d	3.F.3.1, 3.F.3.2, 3.F.3.3	11-2, 11-3, 11-4
	EK 4.D.1	4.D.1.1, 4.D.1.2	11-1, 11-2, 11-3
	EK 4.D.2.a, b, c	4.D.2.1, 4.D.2.2	11-2, 11-3
	EK 4.D.3	4.D.3.1, 4.D.3.2	11-2, 11-3
	EK 5.E.1	5.E.1.1, 5.E.1.2	11-1, 11-2, 11-3, 11-4
<b>12</b>	EK 3.B.3.a, b, c	3.B.3.1, 3.B.3.2, 3.B.3.3, 3.B.3.4	12-1, 12-2, 12-3, 12-4, 12-6
	EK 5.B.2	5.B.2.1	12-5
	EK 5.B.3.a, b	5.B.3.1, 5.B.3.2	12-5, 12-6
	EK 5.B.4.a, b	5.B.4.1, 5.B.4.2	12-5, 12-6
<b>13</b>	EK 6.A.1.a, b, c, d	6.A.1.1, 6.A.1.2	13-1, 13-2
	EK 6.A.2	6.A.2.1	13-1, 13-2, 13-6
	EK 6.A.3.a, b	6.A.3.1	13-2, 13-3
	EK 6.A.4.a, b	6.A.4.1	13-2, 13-3
	EK 6.B.1	6.B.1.1	13-3, 13-5
	EK 6.B.2	6.B.2.1	13-3, 13-4, 13-5
	EK 6.B.4	6.B.4.1	13-3
	EK 6.B.5	6.B.5.1	13-8
	EK 6.D.1	6.D.1.1, 6.D.1.2, 6.D.1.3	13-4, 13-5
	EK 6.D.2	6.D.2.1	13-4
	EK 6.D.3.a, b	6.D.3.1, 6.D.3.2, 6.D.3.3, 6.D.3.4	13-5, 13-6
	EK 6.D.4.a, b, c, d	6.D.4.1, 6.D.4.2	13-5, 13-6
	EK 6.D.5.a, b, c	6.D.5.1	13-7
<b>14</b>	EK 1.B.1	1.B.1.1, 1.B.1.2	14.2, 14.3
	EK 1.B.2.a	1.B.2.1	14.1, 14.2, 14.4
	EK 1.B.3.a, b	1.B.3.1	14.2
	EK 3.C.2.a, b	3.C.2.1, 3.C.2.2	14.4, 14.5
	EK 5.A.2	5.A.2.1	14.2
<b>15</b>	EK 1.B.1.a, b	1.B.1.1, 1.B.1.2	15-1, 15-4, 15-6
	EK 1.E.2.a, b	1.E.2.1	15-5
	EK 5.B.3.c	5.B.3.1, 5.B.3.2, 5.B.3.3	15-2
	EK 5.B.9.a, b, c, d	5.B.9.1, 5.B.9.2, 5.B.9.3	15-3, 15-5, 15-6, 15-7
	EK 5.C.3	5.C.3.1, 5.C.3.2, 5.C.3.3	15-6