

AP Physics 1

Past-Paper Exercise Sheets — Question Index

38 subtopics • 150 questions

1.2 Displacement, Velocity, and Acceleration

4 questions • calculation x4

Source	Q	Type
2023	2	calculation
2021	1	calculation
2021	3	calculation
2015	4	calculation

1.3 Representing Motion

5 questions • calculation x4, short answer

Source	Q	Type
2026	1	calculation
2026	2	calculation
2023	2	calculation
2017	5	short answer
2016	3	calculation

1.5 Vectors and Motion in Two Dimensions

4 questions • calculation x3, short answer

Source	Q	Type
2026	1	calculation
2021	1	calculation
2017	4	short answer
2015	4	calculation

2.1 Systems and Center of Mass

6 questions • calculation x6

Source	Q	Type
2026	2	calculation
2024	5	calculation
2023	1	calculation
2021	3	calculation
2019	1	calculation
2015	1	calculation

2.2 Forces and Free-Body Diagrams

9 questions • calculation x6, short answer x3

Source	Q	Type
2024	1	calculation
2024	3	calculation
2022	1	calculation
2019	2	calculation
2018	1	short answer
2017	2	short answer
2016	1	short answer
2015	1	calculation
2015	4	calculation

2.3 Newton's Third Law

1 question • calculation

Source	Q	Type
2026	2	calculation

2.4 Newton's First Law

1 question • short answer

Source	Q	Type
2018	1	short answer

2.5 Newton's Second Law

5 questions • calculation x3, short answer x2

Source	Q	Type
2025	4	calculation
2019	2	calculation
2018	1	short answer
2016	1	short answer
2015	1	calculation

2.6 Gravitational Force

4 questions • calculation x4

Source	Q	Type
2024	4	calculation
2023	2	calculation
2022	2	calculation
2016	3	calculation

2.7 Kinetic and Static Friction

4 questions • calculation x2, data response, short answer

Source	Q	Type
2026	3	data response
2019	1	calculation
2017	2	short answer
2015	3	calculation

2.8 Spring Forces

7 questions • calculation x6, data response

Source	Q	Type
2025	2	calculation
2024	2	calculation
2024	4	calculation
2023	3	calculation
2022	1	calculation
2022	5	calculation
2019	3	data response

2.9 Circular Motion

3 questions • calculation x2, short answer

Source	Q	Type
2024	1	calculation
2023	3	calculation
2018	1	short answer

3.1 Translational Kinetic Energy

5 questions • calculation x4, data response

Source	Q	Type
2026	2	calculation
2025	2	calculation
2024	2	calculation
2022	3	data response
2015	3	calculation

3.3 Potential Energy

5 questions • calculation x3, data response x2

Source	Q	Type
2025	2	calculation
2022	1	calculation
2022	3	data response
2019	3	data response
2015	3	calculation

3.4 Conservation of Energy

12 questions • calculation x5, short answer x4, data response x3

Source	Q	Type
2026	3	data response
2025	1	calculation
2025	2	calculation
2024	1	calculation
2023	1	calculation
2022	3	data response
2022	1	calculation
2019	3	data response
2018	1	short answer
2018	3	short answer
2017	1	short answer
2017	4	short answer

3.5 Power

4 questions • calculation x2, short answer x2

Source	Q	Type
2019	4	calculation
2018	2	calculation
2018	3	short answer
2017	1	short answer

4.1 Linear Momentum

1 question • calculation

Source	Q	Type
2024	2	calculation

4.2 Change in Momentum and Impulse

4 questions • calculation $\times 4$

Source	Q	Type
2026	2	calculation
2025	1	calculation
2024	2	calculation
2021	3	calculation

4.3 Conservation of Linear Momentum

7 questions • calculation $\times 6$, short answer

Source	Q	Type
2026	2	calculation
2025	1	calculation
2024	5	calculation
2022	4	calculation
2021	3	calculation
2019	1	calculation
2016	2	short answer

4.4 Elastic and Inelastic Collisions

5 questions • calculation $\times 4$, short answer

Source	Q	Type
2025	1	calculation
2024	5	calculation
2022	4	calculation
2021	3	calculation
2016	2	short answer

5.1 Rotational Kinematics

2 questions • calculation $\times 2$

Source	Q	Type
2024	3	calculation
2021	5	calculation

5.2 Connecting Linear and Rotational Motion

1 question • calculation

Source	Q	Type
2023	4	calculation

5.3 Torque

5 questions • calculation x5

Source	Q	Type
2025	3	calculation
2024	3	calculation
2023	5	calculation
2021	5	calculation
2017	3	calculation

5.4 Rotational Inertia

5 questions • calculation x4, data response

Source	Q	Type
2026	4	calculation
2023	4	calculation
2022	3	data response
2019	2	calculation
2017	3	calculation

5.5 Rotational Equilibrium and Newton's First Law in Rotational Form

2 questions • calculation x2

Source	Q	Type
2025	3	calculation
2024	3	calculation

5.6 Newton's Second Law in Rotational Form

6 questions • calculation x5, short answer

Source	Q	Type
2026	4	calculation
2024	3	calculation
2023	4	calculation
2021	5	calculation
2019	2	calculation
2016	1	short answer

6.1 Rotational Kinetic Energy

5 questions • calculation x3, data response, short answer

Source	Q	Type
2023	4	calculation
2023	5	calculation
2022	3	data response
2021	4	calculation
2016	1	short answer

6.2 Torque and Work

2 questions • calculation x2

Source	Q	Type
2026	4	calculation
2023	5	calculation

6.3 Angular Momentum and Angular Impulse

3 questions • calculation x3

Source	Q	Type
2023	4	calculation
2019	1	calculation
2017	3	calculation

6.4 Conservation of Angular Momentum

1 question • calculation

Source	Q	Type
2017	3	calculation

6.5 Rolling

2 questions • calculation, short answer

Source	Q	Type
2021	4	calculation
2016	1	short answer

7.2 Frequency and Period of SHM

5 questions • calculation x5

Source	Q	Type
2024	4	calculation
2023	1	calculation
2022	5	calculation
2019	5	calculation
2015	5	calculation

7.3 Representing and Analyzing SHM

5 questions • calculation x4, essay

Source	Q	Type
2024	2	calculation
2022	5	calculation
2019	5	calculation
2016	5	essay
2015	5	calculation

7.4 Energy of Simple Harmonic Oscillators

3 questions • calculation x3

Source	Q	Type
2023	1	calculation
2022	5	calculation
2015	5	calculation

8.1 Internal Structure and Density

1 question • calculation

Source	Q	Type
2018	4	calculation

8.2 Pressure

1 question • data response

Source	Q	Type
2021	2	data response

8.3 Fluids and Newton's Laws

2 questions • calculation x2

Source	Q	Type
2025	4	calculation
2018	4	calculation

8.4 Fluids and Conservation Laws

3 questions • calculation x3

Source	Q	Type
2026	1	calculation
2025	4	calculation
2018	4	calculation