

12 Phys

ASS 1 - MOTION

2019 Q12 - vertical motion

Q16 - vertical circle

2018 Q11 - rocket

2017 - ^{Q14} projectile (3-dimensions)

2016 Q3 - horizontal projectile.

Q13 - vertical circle (estimate)

Q15 - projectile on Moon

2016 Q19 - conical pendulum.

ASS 2 - GRAVITATION

2018 Q13 - satellite

2017 Q17 - satellite (slingshot) **Q7**

Q19 - Kepler's law (graph)

2019 Q4 - gravity strength

ASS 3 - MOMENTS + EQUILIBRIUM

2019 Q13 - equilibrium

2017 Q11 - cylinder on truck.

2018 Q4 - "

2016 Q18 - woman on ladder.

2017 Q6 - cat on board.

Q9 - bridge problem (with error).

ASS 4 - ELECTROMAGNETISM

2019 Q7 - electric field + weight.

2017 Q20 - conical pendulum - charged spheres.

2018 Q2 - motors in trams.

2016 Q10 - force balance

Q10 - field/force on conductor

2017 Q4 - force on charges

Q13 - B in a wire (graph)

ASS 5 - INDUCED EMF

2019 Q3 - induced EMF

Q18 - coil + graph.

2016 Q5 - coil pulled out of field.

Q8 - AC generator (V_{rms})

2018 Q1 - power transmission

Q7 - AC generator

2018 Q2 - motors in
trams (back EMF)

2017 Q8 - coil movement (graphs)

ASS 6 - LIGHT + ATOMIC PHYSICS

2019 Q2 - photoelectric

Q14 - photoelectric + transitions

Q17 - graph.

2018 Q5 - black body radiation.

Q12 - momentum of photon

Q14 - electron transitions

Q15 - LED - graph.

2017 Q5 - LED - mult. choice

Q12 - black-body radiation

Q18 - photoelectric effect.

2016 Q6 - electron transitions

Q20 - photoelectric
(graph)

2018 Q3 - photoelectric

Q6 - diffraction pattern.

ASS 7 - STANDARD MODEL

2019 Q5 - rest energy.

Q10 - de Broglie

Q11 - relativity.

Q15 - baryons.

2018 Q16 - relativity (in notes).

Q17 - PET + standard model.

2017 Q2 - time dilation

Q15 - positron/electron pair

Q16 - fundamental forces

2016 Q4 - red shift, Q17 - path of
muons.
Q11 - interferometer

Q12 - muons half-life.

Q14 - de Broglie + interference