Revision Checklist: GCSE AQA Physics (Foundation Tier)

1	2	3	4	5

No understanding — Exam-ready

	1. ENERGY	Rate topics 1 to 5
a.	Energy stores	
b.	Changes in energy	
c.	Kinetic energy	
d.	Gravitational & elastic potential energy	
e.	Specific heat capacity	
f.	Power & work done	
g.	Conduction	
h.	Unwanted energy transfers	
i.	Efficiency	
j.	Energy resources (renewable & non-renewable)	
k.	Energy resources (environmental impact)	

	2. ELECTRICITY	Rate topics 1 to 5
a.	Circuit diagram symbols	
b.	Charge & current	
c.	Current, resistance & potential difference	
d.	I-V characteristic curves	
e.	LDR & thermistor	
f.	Series & parallel circuits	
g.	D.C. & A.C.	
h.	Mains electricity	
i.	Power in circuits	
j.	Energy transfers in electrical appliances	
k.	The national grid	
l.	Role of transformers	
m.	Static electricity	
n.	Electric fields	

	3. PARTICLE MODEL OF MATTER	Rate topics 1 to 5
a.	Density	
b.	Changes of state	
c.	Internal energy	
d.	Specific heat capacity *(again)*	
e.	Specific latent heat	
f.	Particle motion in gases	
g.	Pressure & volume of gases	

	4. ATOMIC STRUCTURE	Rate topics 1 to 5
a.	Structure of an atom	
b.	Mass number, atomic number & isotopes	
c.	Development of atomic model	
d.	Radioactive decay	
e.	Properties of nuclear radiation	
f.	Nuclear equations	
g.	Half life	
h.	Contamination & irradiation	
i.	Background radiation	
j.	Half-life & hazards	
k.	Uses of nuclear radiation	
l.	Nuclear fission	
m.	Nuclear fusion	

PRACTICALS	Rate topics 1 to 5
RP 1: "An investigation to determine the specific heat capacity of one or more materials."	
RP 2: "Investigate the effectiveness of different materials as thermal insulators, and factors that affect the thermal insulation properties of a material."	
RP 3a: "Investigate how the length of a wire at constant temperature affects the resistance of electrical circuits."	
RP 3b: "Investigate how combinations of resistors in series and parallel affect the resistance of electrical circuits."	
RP 4: "Use circuit diagrams to investigate the I-V characteristics of a filament lamp, a diode and a resistor at constant temperature."	
RP 5: "Determine the densities of regular and irregular solid objects and liquids."	