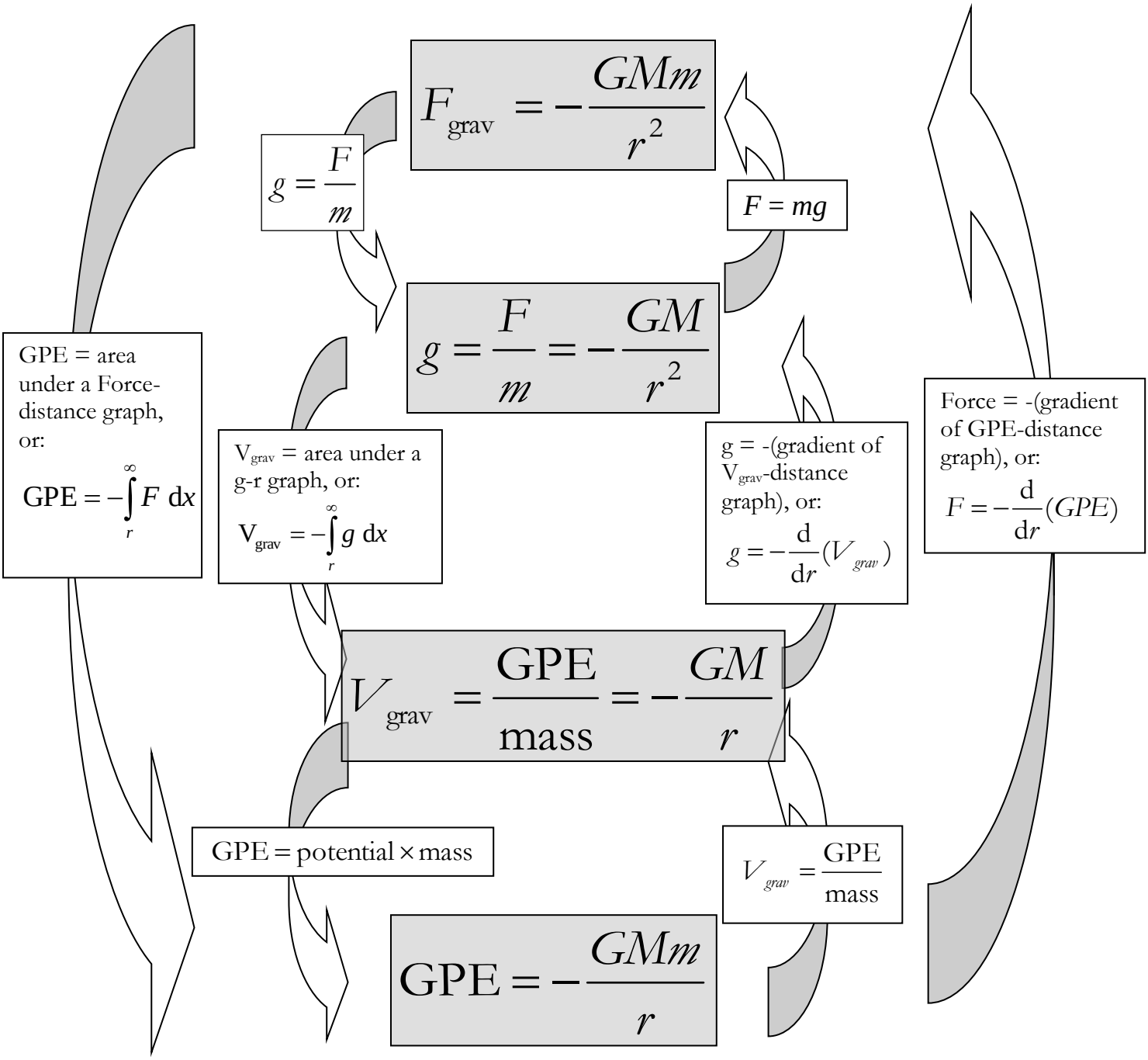
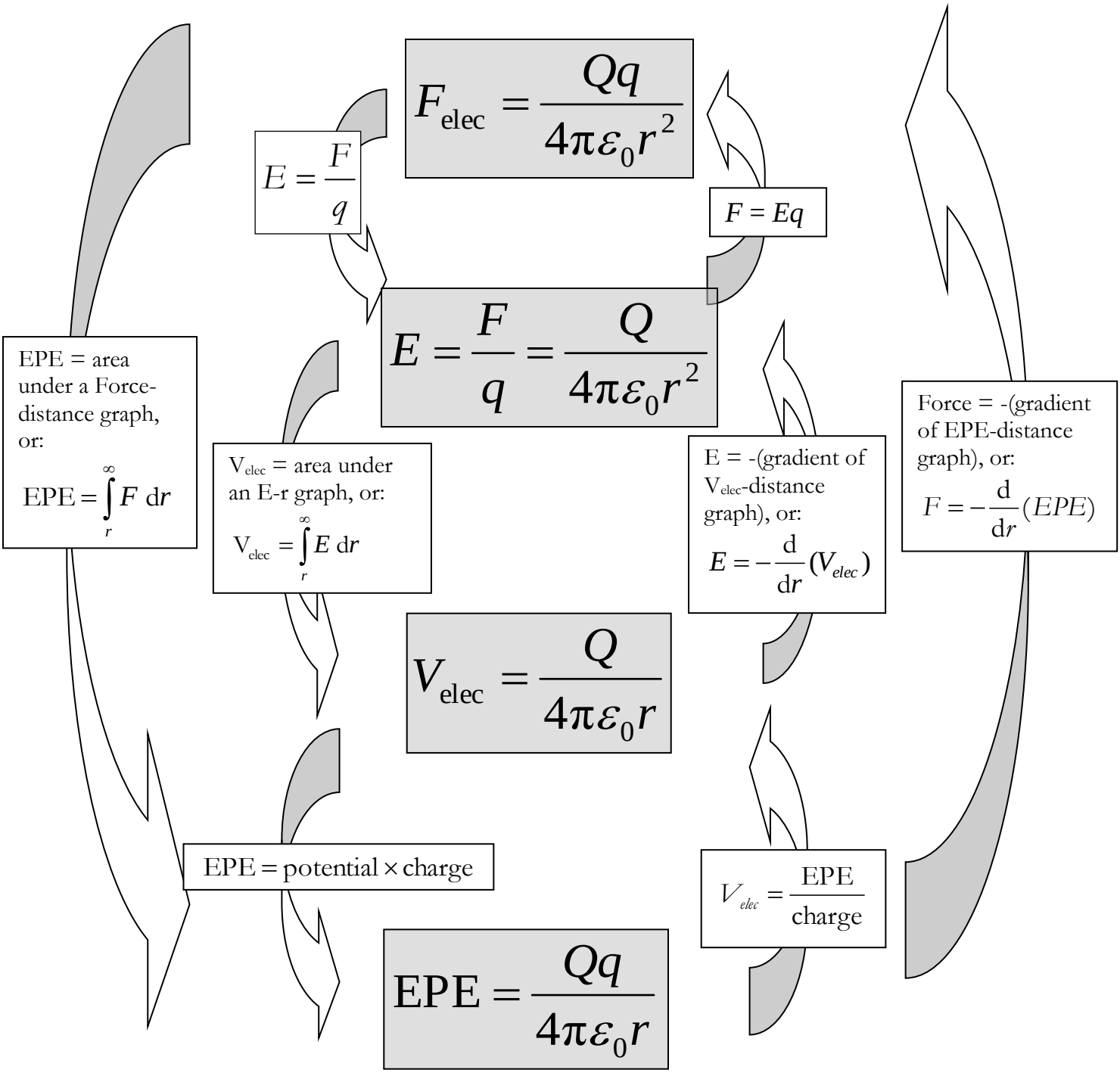
Relationships between Gravitational Field Equations



Quantity	Symbol	Situation	Units
Gravitational Force	F_{grav}	Two objects with masses M and m, separated by distance r attract each other with a Force F_{grav}	N
Gravitational Field Strength	g	How much force is exerted by M on every kilogramme placed a distance r away from M?	Nkg^{-1}
Gravitational Potential	V_{grav}	How much potential energy does each kilogramme of an object have if placed a distance r away from M?	Jkg^{-1}
Gravitational Potential Energy	GPE	How much potential energy will a mass m have if placed a distance r away from M?	J

Relationships between Electric Field Equations



Quantity	Symbol	Situation	Units
Electric Force	F_{elec}	Two objects with charges Q and q, separated by distance r attract each other with a Force F_{elec}	N
Electric Field Strength	E	How much force is exerted by Q on every Coulomb placed a distance r away from Q?	NC^{-1}
Electric Potential	V_{elec}	How much EPE does each Coulomb on an object have if placed a distance r away from Q?	JC^{-1}
Electrical Potential Energy	EPE	How much electric potential energy will a charge q have if placed a distance r away from Q?	J