


## Fundamental Force Particles

Force	Particles Experiencing	Force Carrier Particle	Range	Relative Strength*
<b>Gravity</b> acts between objects with mass	all particles with mass	graviton (not yet observed)	infinity	much weaker  much stronger
<b>Weak Force</b> governs particle decay	quarks and leptons	$W^+$ , $W^-$ , $Z^0$ (W and Z)	short range	
<b>Electromagnetism</b> acts between electrically charged particles	electrically charged	$\gamma$ (photon)	infinity	
<b>Strong Force**</b> binds quarks together	quarks and gluons	$g$ (gluon)	short range	