

THE WORLD OF PARTICLES WITH MASS

QUARKS

	Name: up Mass: very light		Name: charm Mass: heavy		Name: top Mass: very heavy
	Name: down Mass: very light		Name: strange Mass: light		Name: beauty Mass: heavy

LEPTONS

	Name: electron Mass: very light		Name: muon Mass: light		Name: tau Mass: heavy
	Name: electron neutrino Mass: very light		Name: muon neutrino Mass: very light		Name: tau neutrino Mass: very light

BOSONS

	Name: gluon Mass: very light		Name: photon Mass: very light		Name: Z Mass: very heavy
	Name: W plus Mass: very heavy		Name: W minus Mass: very heavy		Name: Higgs Mass: very heavy



THE WORLD OF ANTI-PARTICLES WITH MASS

ANTI-QUARKS

	Name: anti-up Mass: very light		Name: anti-charm Mass: heavy		Name: anti-top Mass: very heavy
	Name: anti-down Mass: very light		Name: anti-strange Mass: light		Name: anti-beauty Mass: heavy

ANTI-LEPTONS

	Name: anti-electron Mass: very light		Name: anti-muon Mass: light		Name: anti-tau Mass: heavy
	Name: electron anti-neutrino Mass: very light		Name: muon anti-neutrino Mass: very light		Name: tau anti-neutrino Mass: very light

HOW TO ADD MASS TO THE PARTICLES

VERY LIGHT: do not add any plasticine in the ball

LIGHT: add 5 g of plasticine in the ball

HEAVY: half fill the ball with plasticine

VERY HEAVY: fill the entire ball with plasticine