## **Energy systems summary**

CP system	Lactate system	Aerobic system
Anaerobic	Anaerobic	Aerobic
Very rapid	Rapid	Slow
Chemical energy	Glycogen	Glycogen and fat
Very limited ATP	Limited ATP	Unlimited ATP
No fatiguing waste products	Lactic acid	No fatiguing waste products
(creatine)	Fatiguing by-product	(carbon dioxide and water)
Short duration	1–3 minutes of intense	Long duration
(0-10 seconds)	activity	
Very high intensity	High intensity	Low to moderate intensity
(95-100% max. effort)	(60-95% max. effort)	(up to 60% max. effort)
Quick recovery	20 minutes to 2 hours	Time to eat and drink
(30 seconds to 5 minutes)	(breakdown of lactic acid)	(to replenish fuel stores)