

Pole Vault

Olympic Stadium

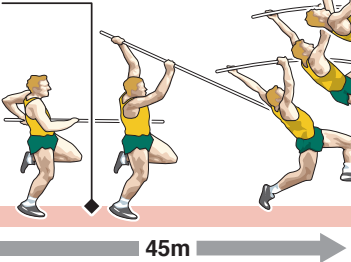
● men ● women



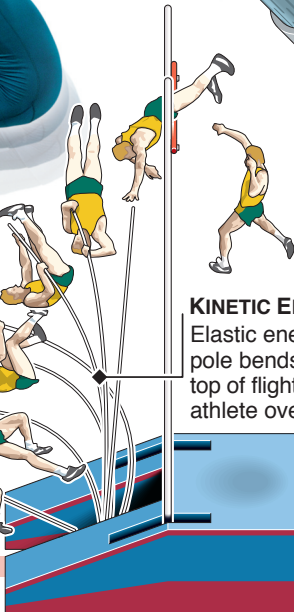
Beijing Olympic Champion
Steve Hooker (AUS)

RUN-UP

Vaulter accelerates down runway, achieving maximum speed at take-off



45m



POLE

Inner layer: Wound fibreglass builds resistance to twisting

Middle layer: Carbon-fibre webbing

Outer layer: High-strength carbon fibre provides high-bending stiffness

KINETIC ENERGY

Elastic energy stored as pole bends is released at top of flight path, projecting athlete over bar

Olympic record	<i>m</i>	Steve Hooker (AUS)	<i>Beijing, 2008</i>	5.96m
	<i>w</i>	Yelena Isinbaeva (RUS)	<i>Beijing, 2008</i>	5.05m
World record	<i>m</i>	Sergey Bubka (UKR)	<i>Sestriere, 1994</i>	6.14m
	<i>w</i>	Yelena Isinbaeva (RUS)	<i>Zurich, 2009</i>	5.06m