

- Since radius of Earth = $6.4 \times 10^6 \text{ m}$ → height of orbit = $36 \times 10^6 \text{ m} = 36000 \text{ km}$
- E.g. **SATNAV** = vehicle satellite navigation
 - Receive **time signals** from system of global positioning satellites (GPS) → orbit Earth at height of just 22000 km
 - Signals are **synchronised** → receiver programmed to measure time differences between signals → use these differences to **pinpoint its position**



Energy of orbiting satellite

- To put satellite into **higher orbit** → **more energy required** (even though it travels more slowly) → since **potential energy of satellite must be increased** to put it in higher orbit
- Satellite of mass m in circular orbit of radius r_2 about spherical planet mass M

○ $\frac{mv^2}{r_2} = \frac{GMm}{r_2^2} \rightarrow$

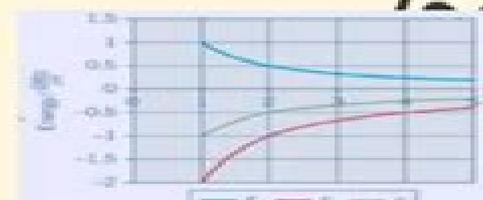
$\therefore KE = \frac{1}{2}mv^2 = \frac{GMm}{2r_2}$

- Satellite is distance r_2 from centre of planet \therefore gravitational potential $V = -\frac{GM}{r_2}$

$\therefore GPE = mV = -\frac{GMm}{r_2}$

\therefore **Total energy** = $KE + GPE = \frac{GMm}{2r_2} - \frac{GMm}{r_2} = -\frac{GMm}{2r_2}$

- Total energy → 0 as $r_2 \rightarrow \infty$
- All 3 curves of E, E_p, E_k are $\frac{1}{r}$ curves → total energy ALWAYS negative



- Work done to put satellite in orbit = energy in orbit – energy on Earth's surface

$work\ done = -\frac{GMm}{2r_2} - \left(-\frac{GMm}{r_1}\right) = GMm\left(\frac{1}{r_1} - \frac{1}{2r_2}\right)$

- (launch sites are usually near the equator, since speed of rotation is the greatest here → reduces work done necessary to put satellite into orbit)
 - Earth's orbital period is 24 hours → but diameter is widest at equator \therefore surface of Earth moving fastest here at 1670 kph! Therefore, due to its inertia, satellite should take off from equator to be given **larger kinetic energy** due to Earth's rotation

Lowest conceivable orbit above Earth

- Satellite of mass m travels at ω angular speed in a circular orbit at a height h above surface of planet of mass M and radius R

$\frac{GMm}{(R+h)^2} = m\omega^2(R+h)$

- Since $\omega = \frac{2\pi}{T}$

$\therefore T^2 = \frac{4\pi^2(R+h)^3}{GM}$

- Period of the satellite in orbit around the Earth must be ≥ 85 minutes because:

- Limiting value is when satellite orbits Earth at zero height, $h \rightarrow 0$

○ $T^2 = \frac{4\pi^2(6.37 \times 10^6)^3}{6.67 \times 10^{-11} \times 6.0 \times 10^{24}} \rightarrow T = 5050 \text{ s} = 84 \text{ mins}$



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Wolfgang Guggemos



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