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The escape velocity for Earth is approximately  $5.04 \times 10^3$  m/s.  $V = \sqrt{2GM/r}$   $6.11 \times 10^{23} \times 2.44 \times 10^{-2} (6.67 \times 10^{-11}) (3.35 \times 10^6)^{-2}$   $\times \times - \times 18315163$   
 $.93 \approx 4.28 \times 10^3$  The escape velocity for Earth is approximately  $4.28 \times 10^3$  m/s.  $V = \sqrt{2GM/r}$   $6.11 \times 10^{24} \times 6.06 \times 10^{-2} (6.67 \times 10^{-11}) (4.90 \times 10^6)^{-2}$   
 $\times \times - \times 107864686.5 \approx 1.04 \times 10^4$  The escape velocity for Earth is approximately  $1.04 \times 10^4$  m/s.

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Where,  $v_e$  is the escape speed;  $G$  is the universal gravitational constant ( $G \cong 6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$ );  $M$  is the mass of the massive body (the body from which the object is to be escaped

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from);  $r$  is the distance from the centre of the massive body to the object; Here we can notice that the above-mentioned relation is independent of the mass of the object which will be escaping from the ...

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Also, the escape speed is dependent on several factors. It is determined by scientists that escape rate of an enormous body like a star, or a planet is evaluated using the following escape velocity equation:  $V_e = \sqrt{2GM / R}$ . The expression for escape velocity is derivable by taking initial kinetic energy of a body and initial gravitational ...

### **Derivation of Escape Velocity - vedantu.com**

The lowest velocity an object must have to escape the gravitational force of a planet or an object. The relationship between the escape velocity and the orbital velocity is defined by  $V_e = \sqrt{2} V_o$  where  $V_e$  is the escape velocity and  $V_o$  is the



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orbital velocity. And the escape velocity is root-two times the orbit velocity.

### **Escape Velocity and Orbital velocity - Definition & Formulas**

We know that  $(\text{Escape velocity} = \sqrt{2} \times \text{Orbital velocity})$  which implies, the escape velocity is directly proportional to orbital velocity. That means for any massive body- If orbital velocity increases, the escape velocity will also increase and vice-versa. If orbital velocity decreases, the escape velocity will also decrease and vice-versa.

### **Relation Between Escape Velocity And Orbital Velocity- At**

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traveling at velocity  $v$  and the same object's gravitational potential energy.

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and the latter for tangential and space velocities, which are usually derived from uncertain distances and proper motions.

### **The Local Galactic Escape Speed - NASA/ADS**

The escape velocity for a planet is  $v_e$ . A particle starts from rest at a large distance from the planet, reaches the planet only under gravitational attraction, and passes through a smooth tunnel through its centre. Its speed at the centre of the planet will be

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