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fortunately scientists don t have to burrow inside our planet to study it by measuring seismic waves traveling through earth researchers have developed a solid understanding of its basic

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introduction three centuries ago the english scientist isaac newton calculated from his studies of planets and the force of gravity that the average density of the earth is twice that of surface rocks and therefore that the earth s interior must be composed of much denser material

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large explosions storm activity meteorite impacts and earthquakes all cause body waves to move through the earth the waves caused by earthquakes are the most widely studied when an earthquake occurs somewhere inside the earth two types of body waves form p and s waves where p stands for primary and s stands for secondary

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