

Fill in the gaps with the words from the box:

pivotal boundaries envisions eradicate feasible laying the groundwork

1. Groundbreaking genome editing tools

In the world of 2030, biotechnology will play a 1) _____ role in unlocking the secrets of our genetic code, revolutionizing healthcare and life expectancy. Gene-editing tools will have become more precise and widely accessible, enabling us to 2) _____ hereditary diseases. The logic is simple: alter the gene lines in an embryo's 8 or 16 cell stage (to, say, eliminate the gene for Tay-Sachs disease) and that change will occur in each of the resulting person's trillions of cells – not to mention in the cells of their descendants.



2. Interplanetary Exploration and Colonization

In the world of 2030, humanity will have made substantial progress in space exploration and colonization efforts. Kurzweil 3) _____ the establishment of permanent settlements on the Moon and Mars, 4) _____ for future interstellar travel. Advancements in technology, such as ion drives and space-based solar power, will make deep space missions more 5) _____. The collaborative efforts of governments and private enterprises should probably accelerate our understanding of the cosmos and push the 6) _____ of human exploration.

