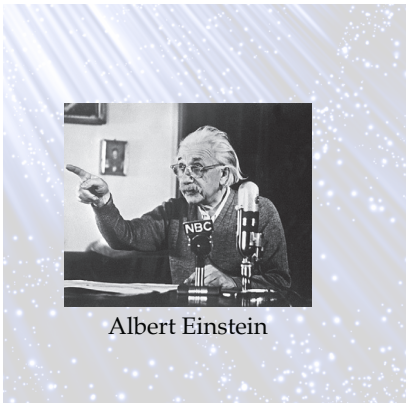


4 Albert Einstein

Einstein grew up in Germany in a middle-class Jewish family. He criticized Germany's education system because it was too strict. When he was just 10 years old a Polish medical student started **tutoring** Einstein in higher mathematics and philosophy. Einstein gave up his German **citizenship** so he could avoid joining the army. He entered a university in Switzerland. Even in university, Einstein remained an independent thinker who often skipped classes. He preferred to study on his own. He had many great scientific ideas while working a boring job as a clerk in a patent office. Einstein is famous for his **theories** about light, **gravity**, space, and time. His most famous idea is $E = mc^2$. It means that energy (E) and **mass** (m) are different forms of the same thing. He also developed the general theory of relativity, a foundation of physics. In 1916 he suggested there's a force on gravity that balances the universe. Although he later called it the biggest mistake of his life, scientists now feel he might have been correct after all.

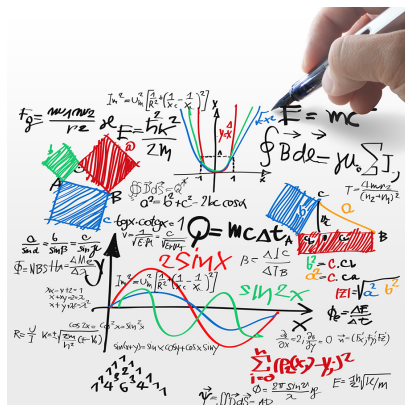
Check the above bold words, read the paragraph, then brainstorm more vocabulary below.



genius

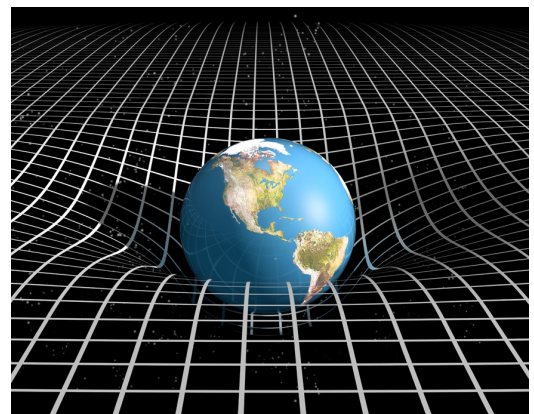


compass



$E=MC^2$

gravity



black holes

nuclear weapons

