

問題2 次の英文を読んで、以下の問に答えなさい。

Computer simulation is an important research tool in today's scientific world. Computers allow us to perform computations that mimic the behavior of complex (biological) systems in ways that we could not otherwise achieve. You could think of these simulations as a computer game, in which a virtual world is created that works according to certain (e.g., physical) rules. While we play the game, we learn the rules governing this virtual world and its environment, and also the way that we affect this world as players.

When using computer simulations in science, one of the most important principles is one that I call "just right." According to this principle, we need to build a model that is not too simple and not too complicated. If the model is too simple, it will not describe the phenomenon we want to investigate in sufficient detail. In contrast, if the model is too complicated, we will not be able to use it to get information that will contribute to our understanding. I think that every researcher should understand what they are doing at a simple and basic level, so that they can explain their research to others. If someone says that they have discovered something great but it is too complicated to explain, I get filled with doubts and I am not convinced that they really understand what they are studying. Therefore, I always search for the simplest model that is good enough. I believe that this is a very general idea for life—each explanation has its own "just right" level. Therefore, I advise you to always look for the simplest explanation that clarifies what you are trying to understand—not more and not less.

出典 : Levitt M (2021) Computer Simulations in Service of Biology. *Front. Young Minds*. 9:603629. doi: 10.3389/frym.2020.603629. (出題のために改変を加えた。)

(1) "When using" から始まる2番目の段落を150字以内の日本語で要約してください。

(2) コンピューター・シミュレーションで扱うことができる事象を一つ挙げ、シミュレーションの活用がどのように役立つかを200単語以内の英語で説明してください。