

Examine how the values and needs of society influence the...

examine how the values and needs of society influence the focus of scientific research

Learning intention

- examine how the values and needs of society influence the focus of scientific research

Teach and model

- considering the use of genetic testing for decisions such as genetic counselling, embryo selection, identification of carriers of genetic mutations and the use of this...
- recognising that financial backing from governments or commercial organisations is needed for scientific developments and that this can determine what research is carried...
- examining the link between scientific research and real-world applications such as space research and new material development

Check understanding

- Explain the main idea in examine how the values and needs of society influence the... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.