

Edexcel Biology

International A-level

CP 12 - Temperature on the development of organisms

Flashcards



What are the controlled variables of this practical (using animals)?



What are the controlled variables of this practical
(using animals)?

Number of eggs in each sample

Length of time incubated

Temperature of incubation



How can the level of development of organisms be measured?



How can the level of development of organisms be measured?

After incubation, shine a light to attract all hatched larvae to swim towards the light and be counted.



How can the organisms be treated ethically during the practical?



How can the organisms be treated ethically during the practical?

Minimise exposure to stressful testing conditions, and release into salt water when the practical is complete.



Outline the procedure to this practical
using plants.



Outline the procedure to this practical using plants.

1. Label 5 petri dishes with a range of temperatures. Place 20 seedlings in each petri dish on top of cotton wool.
2. Use the measuring cylinder to slowly add 30 cm³ of water to each dish and then place each of the marked petri dishes in their corresponding temperature environments.
3. Every 24 hours, add more distilled water to each dish.
4. Count the number of seeds that have germinated for each temperature, recording the results in a suitable table



What are the controlled variables for the practical using plants?



What are the controlled variables for the practical using plants?

Volume of water added

Number of seedlings

Species of seedlings

Time interval between adding water

Light intensity

