Unit 4 – The Natural Environment and Species Survival

FORENSIC SCIENCE

What can be used to estimate time of death?

- -Rigor mortis
- -Body temperature
- -State of decomposition
- -Entomological evidence

What is the natural human core body temperature range?

-36.2C to 37.6C

What graphical shape does the cooling of the body follow?

-Sigmoid curve

What factors can affect post-mortem cooling?

- -Body size
- -Body position

-remperature of surroundings
-lmmersion in water will cool furboy much more rapidly

RIGODYDEIS

What sequences of a

-The muscle cells become starved of oxygen causing oxygen-dependent reactions to stop.

How does this change respiration in the cells?

-It changes to anaerobic respiration and produces lactic acid.

How does this affect the pH of the cells and what is inhibited?

- -The pH of the cells falls
- -Enzymes are inhibited therefore inhibiting anaerobic respiration.

What happens to the ATP production?

-It is no longer produced meaning that muscle contraction is no longer possible.

How do the muscles become fixed?

-The bonds between the muscle proteins become fixed.

How do the proteins become fixed?

- -They can no longer move over one another to shorten the muscle.
- -Therefore fixing the muscles and joints.