

plenary one

Decide whether the following statements are true or false:



Click mouse to reveal answer

Statements:	True	False
Elephants have large ears to help them hear predators ?	True	False
Swimming in cool water is an example of a behavioural response to hot weather ?	True	False
As you travel south towards the South Pole penguins become larger in size ?	True	False
Snow is a good insulating material because it contains lots of trapped air molecules ?	True	False
On a hot summers day, you need to replace fluids lost through sweating ?	True	False
Plants reduce water loss through their leaves by having a thick waxy cuticle ?	True	False
Animals seek shade to help them increase their body temperature ?	True	False
Humans have a normal core body temperature of 47.4°C ?	True	False
Wearing loose cotton clothing on a hot day helps prevent hypothermia ?	True	False
Body fur and fat underneath the skin are adaptations of animals that live in cold habitats ?	True	False

plenary one

Answer:

Statements:	True	False
Elephants have large ears to help them hear predators ?		False
Swimming in cool water is an example of a behavioural response to hot weather ?	True	
As you travel south towards the South Pole penguins become larger in size ?	True	
Snow is a good insulating material because it contains lots of trapped air molecules ?	True	
On a hot summers day, you need to replace fluids lost through sweating ?	True	
Plants reduce water loss through their leaves by having a thick waxy cuticle ?	True	
Animals seek shade to help them increase their body temperature ?		False
Humans have a normal core body temperature of 47.4°C ?		False
Wearing loose cotton clothing on a hot day helps prevent hypothermia ?		False
Body fur and fat underneath the skin are adaptations of animals that live in cold habitats ?	True	

plenary two

Match the following statements:



Click mouse to reveal answer

Hypothermia is when your core body temperature...



Reflect the intense heat of the sun.

Sweating during a hot summer's day helps you...



Trap an insulating layer of air against the skin's surface.

Polar species like polar bears and emperor penguins have...



Put on a jumper or eat warm foods like soups and stews.

An example of a behavioural response to cold weather is to...



Drops below 35°C, making you shiver, feel numb and sluggish.

Desert lizards have light coloured skin to help...



Reduce your internal core temperature.

When you are cold, hairs on your skin stand upright to...



Thick fur and layers of insulating body fat underneath their skin.

plenary two

Answer:

Hypothermia is when your core body temperature...



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Trap an insulating layer of air against the skin's surface.

9M Investigating science...temperature control

level 5
level 6
level 7

plenary three





Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

web: www.science-interactive.co.uk

Look at the three pictures below: Write a sentence or say how each activity helps control internal body temperature: Also state which actions are behavioural or physiological:






Click mouse to reveal answer

	Sweating	Seeking shade	Body hair or fur	Clothing
Diagram				
	Behavioural	Behavioural	Behavioural	Behavioural
	Physiological	Physiological	Physiological	Physiological
	How this helps to regulate internal temperature:	How this helps to regulate internal temperature:	How this helps to regulate internal temperature:	How this helps to regulate internal temperature:

plenary three

Answer:

	Sweating	Seeking shade	Body hair or fur	Clothing
Diagram				
		Behavioural		Behavioural
	Physiological		Physiological	
	How this helps to regulate internal temperature: Sweating takes heat away from the body by the sweat or water droplets evaporating.	How this helps to regulate internal temperature: Reduces the amount of infra red energy from the sun which is absorbed by your body.	How this helps to regulate internal temperature: When cold, your body hair becomes upright and traps a layer of insulating air against the skin.	How this helps to regulate internal temperature: When cold putting on a jumper or a warm coat helps reduce heat loss to your surroundings.