Science - Year 6

Evolution and Inheritance – Block 6EI

The Game of Survival

Session 2

Resource pack

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Arctic Fox

Cape fox
Red Fox
Peppered moth

Moths resting on polluted and non-polluted birch tree trunks:
Suggested animals to research

Otters
Squirrels
Bats
Owl
Deer
Wild cats
Bears
Variation game

Match the animals to the environment and decide what might happen with the suggested variation.

Tundra (and Taiga)

It is very cold and dry here. Temperatures range from a winter time low of -70°C to summer time high of 12°C. It is also very windy with very little precipitation (mainly snow). While the summer can be mild and the frozen ground thaws a little, underneath the top layer of soil the ground is permanently frozen (called permafrost).

Alpine Mountain

It is cold, snowy and often windy here, although the climate varies depending on the specific region and height. Temperatures range from a winter time low of below 0°C to a summer time high of 15.5°C ⁰C. There is a low level of precipitation (rain and snow).
Temperate grasslands or forest

This is known as a temperate continental climate which tends to result in very hot summers and very cold winters. Temperatures can range from -40°C in winter to over 37°C in the summer. About 55-95cm of precipitation (rain and snow) falls mainly during the spring and summer.

Desert/desert scrub

Temperatures are usually very high in the summer months but remain warm throughout the year. Precipitation (rain) is very low - about 8-13cm annually in damper regions, although in others it may not rain for years on end! And in fact, rain is often evaporated back into the air at a greater rate than it falls. Depending on the region temperatures can range from 20-49°C (that is very hot!).
Arctic fox – I have thicker fur

Snowy owl – larger claws

Reindeer – longer legs

Polar bear - smaller

Bearberry - larger berries

Arctic willow – leaves without fuzzy hairs
Osprey – smaller wing span

Snowshoe hare – darker fur

Snow leopard – no fur on pads of paws

Mountain goat – better sight, poorer hearing

Yak – white in colour

Marmot – thicker, more orange fur
Wild sage – paler colour
Moss campion – more but smaller flowers
Badger – better sight
Bumble bee without stripes and thistle that is white
Butterfly – large red circles on tips of wings
Stinging nettle that doesn't sting
Wolf – speckled coat

Bison smaller body but bigger horns

Lizard – darker colour

Desert toad - larger

Giant scorpion – extra set of small pincers

Rattlesnake - bright yellow markings
Cactus – bright red in colour

Yucca – grows taller and narrower stem