

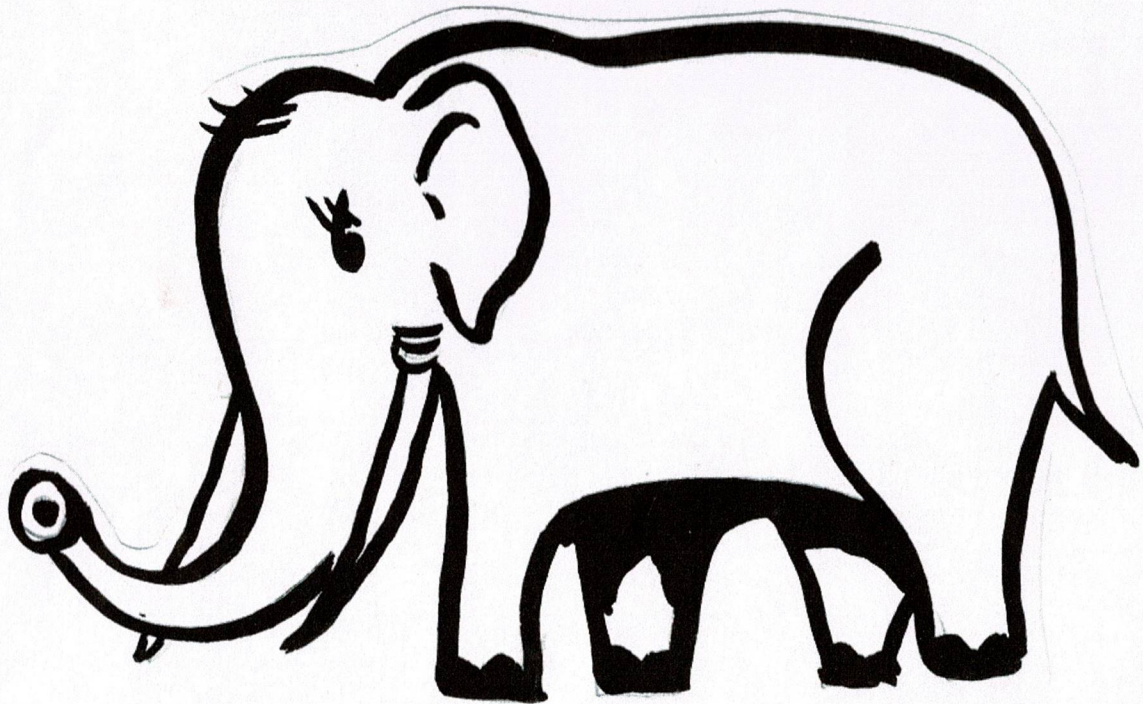
Design your own Cold Region Elephant =

Mammoth!

Scientists are trying to bring back mammoths to help combat global warming. They plan to do this by editing Asian Elephants DNA to be more suited to colder climates.

How would you make an Asian Elephant to be more snow/ice proof? Maybe give it a coat? Or boots? Design your own mammoth, but cutting out the items on sheet two and three and sticking on this Asian Elephant!

You'll need. Crayons/coloured pencils. Scissors and glue.



My Name _____

My Mammoth is called _____

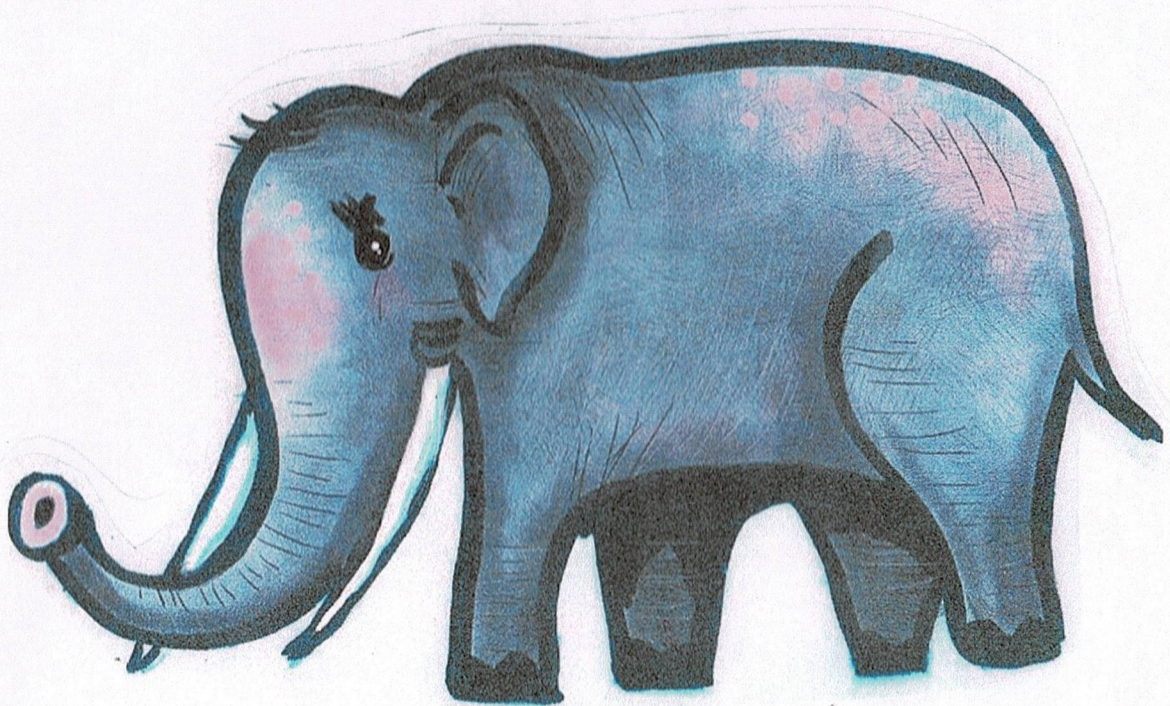
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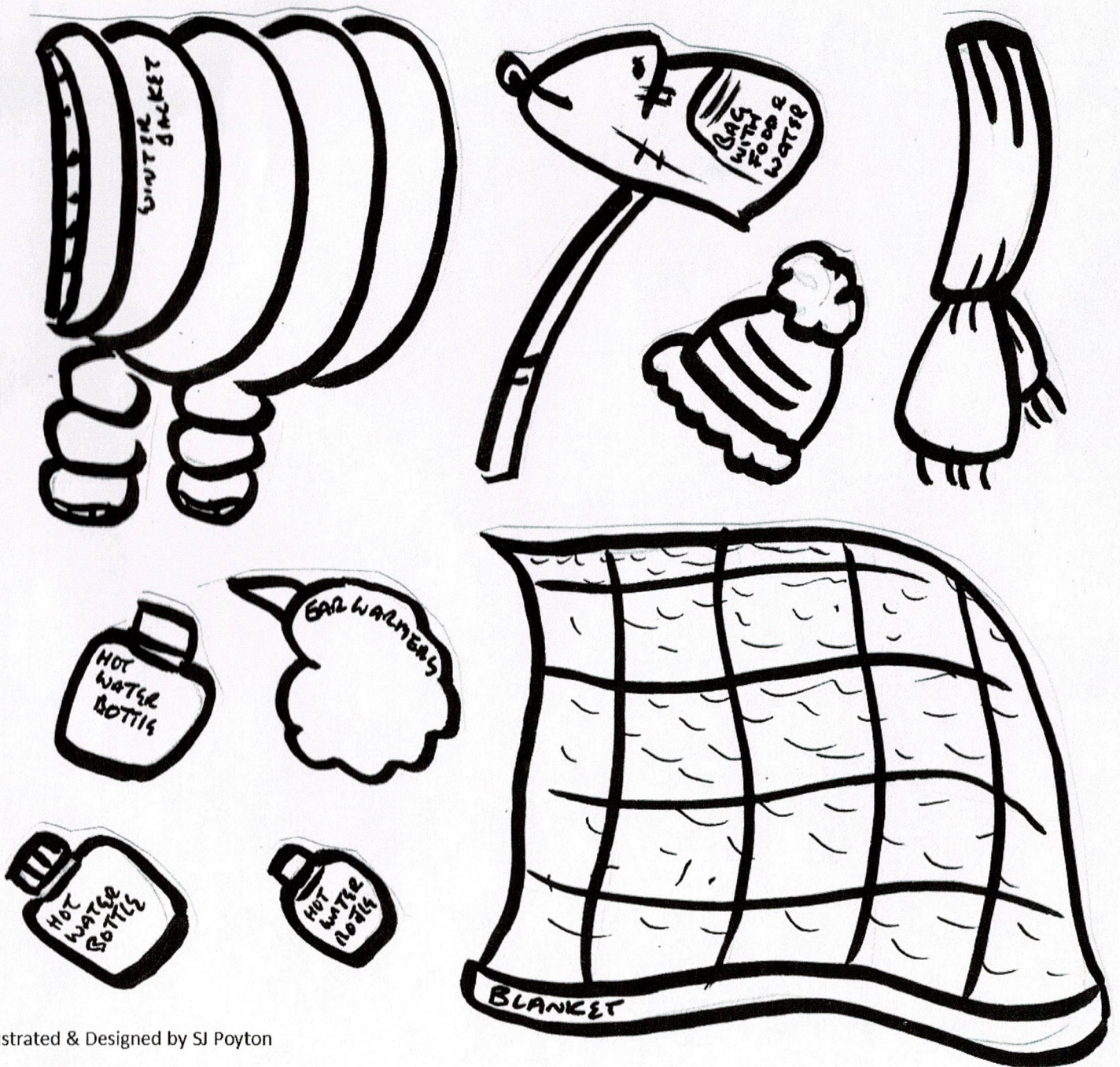
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Design your own Cold Region Elephant =

Mammoth!

Cut out shapes. Colour and stick on your Asian Elephant to design your very own cold climate elephant or mammoth!

Be careful with scissors or ask an adult for help!

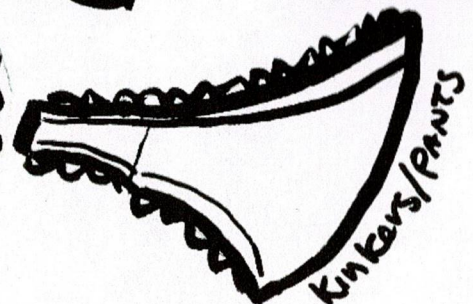
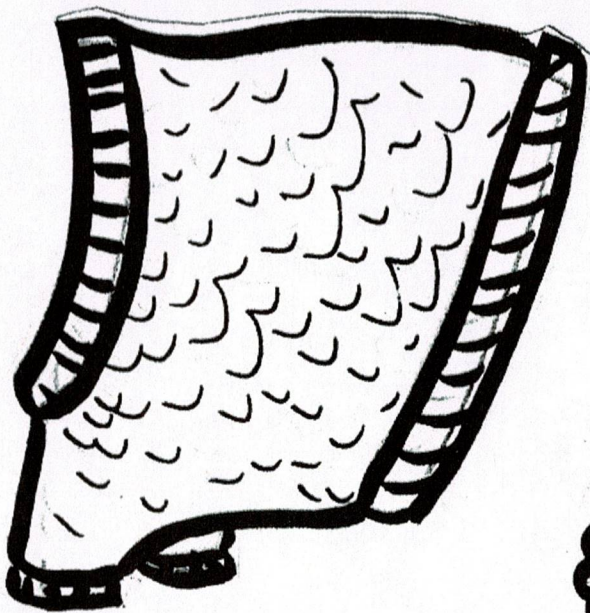
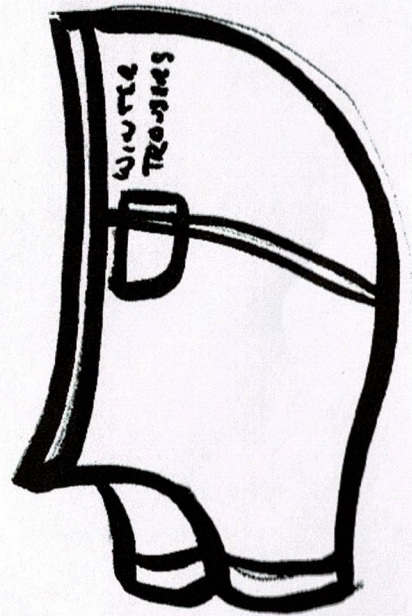
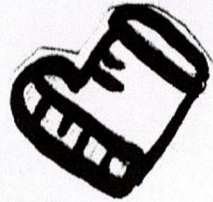
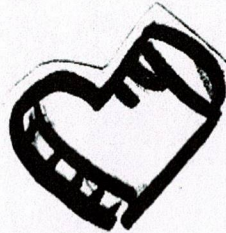
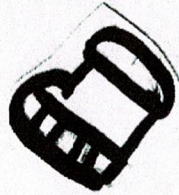
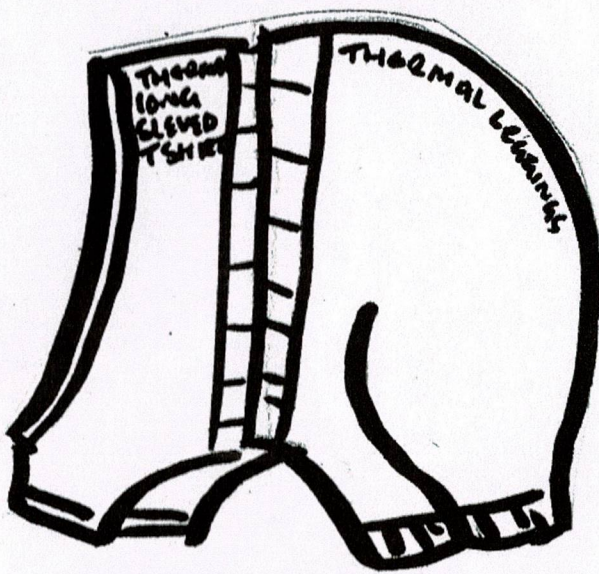


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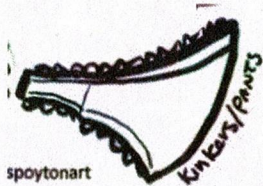


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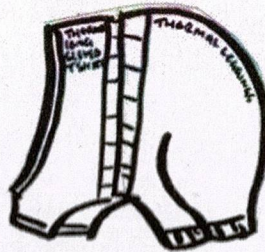
Mammoth!

Workshop leader support sheet. How the items on the previous page can help winterproof an elephant for cold climates and how mammoths evolved their own versions...

Knickers / Pants



Mammoths had underwear of a sort. They had a flap of skin over these bottom hole, that opened and closed when they needed to poo, so their bottoms did not freeze!

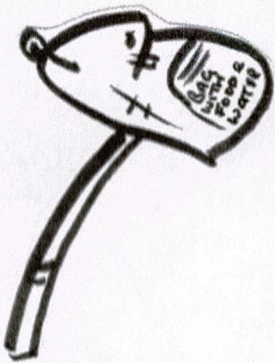


Thermals & Hot Water Bottles

Mammoths had there own version of thermal under garments in the way of a thick blubber like fat layer beneath their skin that kept them warm.



Bag With Food and Water



Mammoths had the equivalent to a bag of water and food. They had a lump on their backs full of fat that could be used as energy when food was scarce — like a camels humps/s. It's a mammoth pack lunch!



Winter Trousers and Jumper

Mammoths were big into layering. They had a version of winter trousers and jacket - as they had a inner coat of fine short hair that trapped air, to keep them warm.



Ear Warmers

Mammoths evolved to have much smaller ears than elephants, and they were woolly—meaning they were less likely to get frost bite as they were close to the head and were insulated.



Snow Boots

Mammoths feet evolved to be like snow boots, they were big, about 13% bigger than an African Elephant, (which are about the same size) so to distribute their weight and stop them sinking into the snow.

There were also very padded—like the thick soles of a snow boot, to insulate them from the cold, and help cushion them when walking on hard frozen surfaces.

Snow Jacket, Blanket, Hat, Scarf. Trunk and Leg Warmers...

Mammoths had an outer coat made up of thick coarse woolly hair that was up to a meter long. This trapped in air beneath it— that was warmed by its body heat. It also protected the mammoth from the heavy snow, and frost, like a good winter jacket.

It's head, legs, trunk and neck were also very woolly to keep it warm and protect it from the elements.

