THERMAL INSULATORS

Thermal insulators are _ _ _ _ _ _ _ _ _ that can keep things warm and often don't get too _ _ _ themselves. Materials that are not good at keeping things _ _ _ _ are called thermal _ _ _ _ _ _ _ _ _ _ _ , these can get very hot when they are touching other hot materials.

WORD BANK			
hot	materials	conductors	warm

Thermal insulators Experiment

Aim: We wanted to find out which material was best at keeping a container of hot water warmest for longest, wool, paper or polystyrene chips.

Prediction: (Say which material you think will be the best thermal insulator).

Method: (Draw a diagram of all the things used in your experiment and say what you did).

Results:

Time elapsed (minutes)	Temperature (degrees C) polystyrene chips	Temperature (degrees C) Paper	Temperature (degrees C) Wool	Temperature (degrees C) Control

Conclusion: (Say which material was the best thermal insulator and which was the worst, explain how you know).

Method: We poured hot _ _ _ _ _ into 4 containers. We then surrounded one with _ _ _ _ _, one with _ _ _ _ and one with _ _ _ _ _ _ _ _ _ _ _ _ chips. We left one container with nothing around it. All the containers had a plastic lid with a _ _ _ _ _ _ _ _ _ _ _ _ _ sticking through it into the water. We measured the temperature of the water in each container every _____ minutes.

WORD BANK				
Wool	water	paper	thermometer	polystyrene

Conclusion: We found out that _____ was the best thermal insulator and _____ was the worst.