TASK one the experiment and results collecting

Investigating Materials

You have been asked to help choose the best material for the inner lining of a lunch box to make sure that the Brilliant Bag Company's new lunch box keeps children's lunches cool and fresh until lunch time.

What materials will you test?

What material do you predict will be the best choice for your lunch box? Why?

What is the independent variable of your investigation? (Tip: This is the thing you will change in the investigation).

What is the dependent variable? (Tip: This is the thing that you observe of measure in your investigation).

What are the controlled variables? (Tip: These are the things that you keep the same in the investigation).

Variables
Type and size of box;
type of thermometer;
size and quality of ice cubes;
temperature of room;
length of time;
size of materials;
type of material.

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Fill in the results in to this table. Each time pour the water from each material in to a different container then measure using a measuring jug. Do not pour away any of your water.

Material	Starting amount of Ice cubes	Liquid drained after 5 minutes	Liquid drained after 15 minutes	Liquid drained after 25 minutes	Liquid drained after 30 minutes