

# Microwave Ovens

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**This task is about planning and doing an investigation, and collecting and interpreting results.**

## **How to do this task**

Hot spots are areas of the microwave oven that heat up more than other areas.

- Your question to investigate is whether microwave ovens have hot spots
- Your task is to write a plan to test whether your microwave oven has hot spots. After your teacher has seen your plan, you can carry out your investigation.
- Equipment that you can use: microwave oven; cups; thermometers; water.

Some things to think about before writing your plan:

- How many cups will I use?
- Where will I put the cups inside the microwave oven?
- How much water will I put in each cup?
- What will the temperature of the water in the cups be at the start?
- How long will I leave the cups in the microwave oven for?
- What power level of the microwave oven will I use?

a) **My plan (Method):**



## Results

b) Now carry out your plan and record your results in the box below.

c) Write a sentence about what your results tell you about the microwave oven.

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d) What changes would you make to your plan if you were to carry it out again?

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e) If you were buying a microwave oven, what quality would you look for if you wanted to cook or heat food evenly?

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