

# Cost To Cook Case Study 1



## How Cheap Is Using The Microwave VS Other Cooking Methods?

Below is a pricing grid to help everyone understand the cost of cooking. These figures are based on an average appliance found within UK households and the costs are accurate as of January 2023.

| Appliance          | Cost In Pence VS Minutes Used |            |            |            |
|--------------------|-------------------------------|------------|------------|------------|
|                    | 10 Minutes                    | 30 Minutes | 60 Minutes | 90 Minutes |
| Air Fryer Electric | 11                            | 33         | 66         | 99         |
| Electric Hob       | 9                             | 27         | 54         | 81         |
| Microwave          | 5                             | 15         | 30         | 45         |
| Electric Oven      | 12                            | 36         | 72         | 108        |
| Slow Cooker        | 1                             | 3          | 6          | 9          |
| Electric Toaster   | 7                             | 21         | 42         | 63         |
| Gas Hob            | 1.5                           | 4.5        | 9          | 13.5       |
| Gas Oven           | 2.5                           | 7.5        | 15         | 22.5       |

To work out how much it costs for other times the sum below will help;

$$(10 \text{ minute cost} / 10) \times \text{Number of minutes cooking time}$$

You have decided to make some chocolate brownies for your family. You have decided to see which appliance has the lowest Cost to Cook. The ingredients needed to make the brownies are butter, sugar, vanilla extract, cocoa powder, eggs, flour, and chocolate chips. These ingredients are the same for all cooking appliances.

**In the Microwave you need to melt the butter for 1 minute and the cooking time is 5 minutes.**

Cost to Cook in a Microwave is 3 Pence

**In the Air Fryer you need to preheat it for 5 minutes and the baking time is another 15 minutes.**

Cost to Cook in an Air Fryer is 22 Pence

**In the Electric Oven you need to preheat the oven for 15 minutes and the baking time is another 30 minutes.**

Cost to Cook in an Electric Oven is 54 Pence

**In a Gas Oven you need to preheat the oven for 15 minutes and the baking time is another 30 minutes.**

Cost to Cook in a Gas Oven is 11.25 Pence

The lowest Cost to Cook is Microwave The highest Cost to Cook is Electric Oven