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| **KQ: What are physical and chemical changes?** |
| A physical change is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.A chemical change is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Station** | **What I think is happening** | **Scientific explanation of what is happening (Use the internet)** | **Physical or chemical change** |
| Station 1Sugar Water |  |  |  |
| Station 2Bush Fire |  |  |  |
| Station 3Bicarb and Vinegar |  |  |  |
| Station 4Magic Salt |  |  |  |
| Station 5Cooking an Egg |  |  |  |

Station 1

Sugar Water

A few weeks ago we mixed some sugar into some water for an experiment. Can you remember what happened? Use the internet to find out “**what happens to sugar when it dissolves**”. Do you think this a physical or chemical change?

Station 2

Forest Fire

Look at the image of the bush fire. What do you think is happening to the wood particles in the trees? Use the internet to research the “**burning wood reaction**”. Do you think this is a physical or chemical change?

Station 3

Bicarb and Vinegar

What happens when we mix bicarb and vinegar? Add one heaped teaspoon of bicarb soda to one cup of vinegar and see what happens. Write why you think this occurs, then use the internet to find out the scientific explanation behind “**why bicarb and vinegar react**”. Is this a chemical or physical change?

Station 4

Magic Salt

These cups had salt dissolved into them when we did our experiment earlier, but the salt seems to have come back! Why do you think the salt has appeared at the bottom of the cup? Google “**how is salt made**” to find your answers. Is the salt reappearing a chemical or physical change?

Station 5

Cooking an Egg

What happens to an egg when it is fried? With the help from an adult, fry an egg and then write what you think is happening to the particles in the egg. Research “**raw egg change**” to find out what is actually happening to the egg, and whether this is a physical or chemical change.