**Maths Functional Skills Lesson Homework**

***Energy Action***

**1)** *Discuss with your family how realistic it would be to actually do any of the following for a year. Circle Y / N.*

* turning the thermostat down by 1 degree Y / N
* letting your hair dry naturally instead of using a hair dryer Y / N
* putting a lid on the saucepan while you're cooking Y / N
* keeping doors shut to keep the heat in Y / N
* making your shower 2 minutes shorter Y / N
* turning off the tap when you brush your teeth Y / N
* putting on a jumper instead of turning on the heating Y / N
* turning off lights when you leave a room Y / N
* turning off your TV when you're not watching it Y / N
* switching appliances off, don’t leave on standby Y / N

|  |  |  |  |
| --- | --- | --- | --- |
| **2 Which of these will you and your household really commit to doing for the next year?** Tick as appropriate | | | |
|  | Me | Other young people at home | Adults at home |
| Turning the thermostat down by 1 degree |  |  |  |
| Letting your hair dry naturally instead of using a hair dryer |  |  |  |
| Putting a lid on the saucepan while you're cooking |  |  |  |
| Keeping doors shut to keep the heat in |  |  |  |
| Making your shower 2 minutes shorter |  |  |  |
| Turning off the tap when you brush your teeth |  |  |  |
| Putting on a jumper instead of turning on the heating |  |  |  |
| Turning off lights when you leave a room |  |  |  |
| Turning off your TV when you're not watching it |  |  |  |
| Switching appliances off, don’t leave on standby |  |  |  |

**3) Big Stuff:** What else would your household do?

*Fill in the boxes below and have a conversation with adults at home to decide if your household might take any of these actions:-*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Action** | **A. Cost £s** per Year | **B. Financial Benefit £s**  for your family  (per **year**) | **C. Break-even**  **Time:** Years  To calculate this: i) Calculate the savings per year ii) Divide the Cost by the Savings per year | **Other benefits for you and the planet** | **Decision**  **Yes / No / Maybe** |
| Have a (free) water meter fitted and start to save water when they can. (This can save approx £20 per month on your water bill). |  |  |  |  |  |
| Have solar panels installed. Cost approx £6000. This can save £17 per month on your energy bills. |  |  |  |  |  |
| Have your insulation checked and improved. Cost approx. £1300. (This could save £21 per month on your energy bills). |  |  |  |  |  |
| Replace your old boiler with a more efficient boiler. Cost approx. £1600.This can save £17 per year on your energy bills. |  |  |  |  |  |
| The family have a smart meter fitted and start to reduce their electricity usage. Cost: free. This will save your family approx £2 per month. |  |  |  |  |  |

All of the figures above are general estimates and costs, money savings and energy savings will vary significantly from household to household depending on a wide range of factors.

For more detailed information on costs and savings, and practical information on next steps, visit:-

<https://energysavingtrust.org.uk/home-energy-efficiency>