Physics - Key Stage 3 - Energy

## Lesson 2: Energy Stores and Pathways

Mrs Evans

## Independent Practice: complete the table

|  | mJ | J | kJ |
| :---: | :---: | :---: | :---: |
| a | $?$ | 3 | $?$ |
| b | $?$ | 45 | $?$ |
| c | 230 | $?$ | $?$ |
| d | $?$ | $?$ | 6.8 |

## Independent Practice: answer the questions

What are the units of energy?

Who are the units named after?

What is 1000 J equal to?

What is the law of conservation of energy?

## Independent practice: complete the gaps

for stretching a rubber band


## Independent practice: fill the gaps

a. A mobile phone is switched on. Energy is transferred from the $\qquad$ ? $\qquad$ store in the battery to the $\qquad$ ? $\qquad$ store of surroundings, by heating and radiation (sound and light).

| elastic potential |  |
| :---: | :---: |
| thermal | gravitational potential chemical |
| kinetic |  |

b. 400 J of energy is transferred. 150 J is transferred by heating, how much energy is transferred by radiation? $\qquad$ ? $\qquad$

