Worksheet 1.3.6 Stores and transfers

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1 Storing energy >

For each of these, suggest whether energy is being stored:

1. An electric current flowing along a wire ………………………………………………..
2. A bowling ball, rolling towards a set of pins ………………………………………………..
3. A jacket potato, straight out of a hot oven ………………………………………………..
4. A radio wave ………………………………………………..
5. A child, sat at the top of a slide ………………………………………………..

2 Energy transfers >>

Sometimes energy is transferred between stores. For each of these situations, explain how energy is being transferred between one store and another.

1. Microwaves in an oven, being used to cook food.

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1. A torch, being used to light up a dark lane when walking home.

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1. A cup of hot tea, sat on the table.

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3 Applying ideas >>>

Think of a roller coaster ride. In this ride, the train starts at ground level and is pulled to the top of the first summit by an electric motor. The train then rolls down the slope and up to the next summit (not as high as the first). It goes over a number of summits, each lower than the previous one, until it finishes back at the start point. As it goes round, it speeds up as it goes downhill and slows down as it rises up the next one.

Explain how energy is transferred between stores as the train travels around the track.

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