4 – Wheel Balloon Car Questions

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| Do the cars go faster on a smooth floor or carpet?  |  |
| If your car were to travel 3 metres in 3 seconds, calculate its average speed (in metres/second).  |  |
| What was the average speed of your car?  |  |
| Did you make any improvements to your car? What effect did these have?  |  |
| Suggest possible reasons why some cars go faster than others.  |  |
| **Extension questions**  |  |
| When you blow up the balloon you store energy in it. What is another name for stored energy?  |  |
| Most of the stored energy is converted to movement energy as the car zooms across the floor. What is another name for movement energy?  |  |
| What made the car accelerate across the floor?  |  |
| Why do you think cars have rubber tyres?  |  |

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