

IMAGINE



DRIVEN TO INSPIRE: THE SCIENCE OF GOING FAST!

# KEY FEATURES OF PHYSICS

INFORMATION SHEET

## Friction (grip/ aerodynamics)

Contact between the tyre and the surface; air resistance (drag) between the racing car body shape and the air it is moving through.

## Power (acceleration)

Rate at which the chemical energy stored in the fuel can be transferred to the engine to create kinetic energy that moves the car forward.

## Mass (weight)

Gravity's effect on the weight of the car; this impacts the rate of acceleration, but also holds the car to the track when cornering.

## Material design and composition (safety features)

Elements of the car are designed with the drivers safety at the forefront. **Material design and composition** play a key role in keeping the driver safe, but also ensuring the efficiency of a car's performance.

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