## Newton's Second Law of Motion

Two cars A and B, have masses of 2000 g and 3000 kg respectively. They both start with 0 velocity and accelerate up to a speed of $30 \mathrm{~m} / \mathrm{s}$ in 10 seconds.

1. Argue which car should need a bigger force?
2. Now calculate the actual forces needed using Newton's second Law.
