# Work in groups: Pressure, heat and temperature

1. Estimate the pressure exerted on the ground from the weight of a human versus an elephant. Compare the two situations to each other.
2. Construct (in theory) a tool that uses hydraulics, which can lift a car with the weight of 1500kg, only using hand power.
3. Look at following scenarios:
4. A tiled floor has a carpet upon it. Has the floor and the carpet the same temperature? On which one would you like to walk bare foot on and why?
5. You are making dinner in the oven which has the temperature 225oC. The food is in a package of aluminium foil which is situated on a baking sheet. It is possible to grab the foil package without burning yourself. Why? And why is it a bad idea to grab the baking sheet?