ROBOTICS 1 Gravity racer



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BRIEFING

Lesson objective

- Get to know the utilisation of gravity in the production of kinetic energy
- Understand how potential energy is released as kinetic energy
- Build a vehicle that works with gravity

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Briefing: Gravity racer

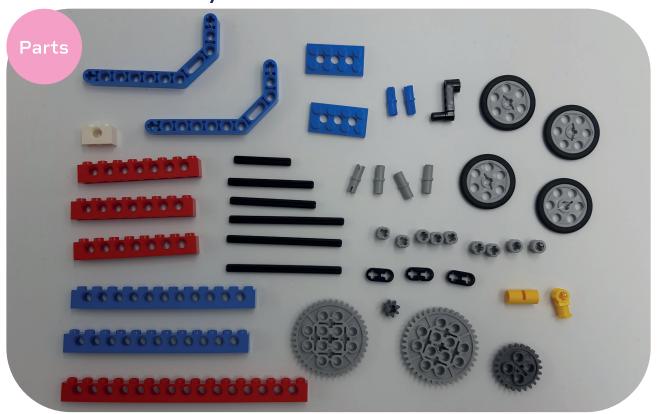
Lesson fact

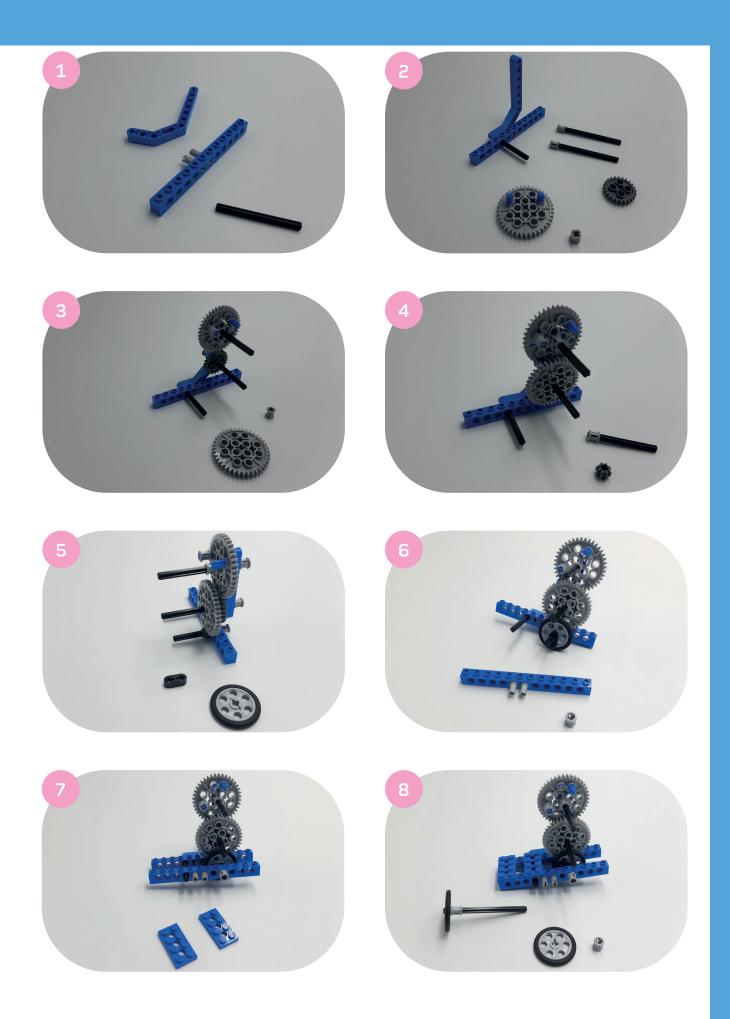
- The Earth's gravity, or attraction, causes all objects to fall towards it
- Gravity can also be used to produce kinetic energy
- Work done against gravity (e.g. climbing a hill) is "stored" as potential energy
- For example, on a downhill, gravity does work, and the object slides towards the bottom, in which case the potential energy of the object is released as kinetic energy





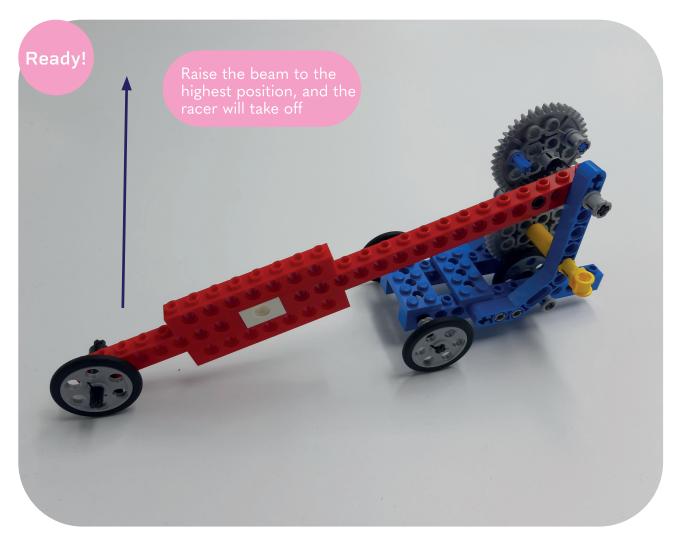
Lesson exercise: Gravity racer











Extra

Try: What happens if you add weight to the beam?