



Homework: 11th June 2026



# Vehicles for exploration

## Your task

Over the next 3 weeks, you will be researching land vehicles used for exploration. You may choose one or more vehicles that have been used to explore extreme environments such as: Antarctica, deserts, jungles, mountains, the Arctic or even other planets!

Create a poster, PowerPoint, or fact file that includes:

### 1. Information about your chosen vehicle(s)

What is the vehicle called?

Where is it used?

What is its purpose? (What job does it do?)

Who uses it? (e.g. scientists, explorers, researchers)

### 2. Images or Drawings

Include printed photos OR neatly drawn and labelled diagrams of your vehicle(s)

## Think Like a Designer

You must explain how the vehicle is fit for purpose. This means explaining how its design helps it do its job.

Think carefully about:

- Wheels or tracks - Are they large? Wide? Why?
- Tyres/treads - How do they grip different surfaces (ice, snow, sand)?
- Chassis/body shape - Is it strong? Low? High off the ground? Why?
- Mass (weight) - Is it heavy or lightweight? Why does this matter?
- Materials - What is it made from? Why are these materials suitable?
- Special features - e.g. heated cabins, insulation, electric motors, storage space

Try to explain how these features help the vehicle survive and work in extreme conditions.

## **Optional challenge:**

Compare two different vehicles and explain which one you think is better for exploration and why.

We will be sharing what we have discovered in class and will use our learning to inform our work in DT.

**Homework Due: Wednesday 1st July**