

Materials and their properties

Camping holidays can be really fun, as long as you keep warm and dry!

The materials used to make each part of a tent are carefully chosen so the tent does its job properly.



Canvas

The material has to be:

- **waterproof** but **breathable**, so air can get in but rain can't
- **opaque**, so people outside can't see in

Suggested material: a **polymer** such as **nylon** or **polyester**.

Pegs

The pegs will be pushed into the ground – they need to be:

- **hard**
- **rust-proof**

Suggested material: metals like **stainless steel** or **aluminum**.

Guy ropes

The ropes keep the tent upright so it doesn't collapse – they need to be:

- **strong**
- **not prone to shrinking or stretching**

Tent poles

Poles hold the tent up – they need to be:

- **flexible**, so they can bend without snapping
- **light** – for making carrying the tent easier

Suggested material: **carbon fibre composite**.