

Designing Bikes

There are lots of different bikes that are designed to be ridden on different types of terrain. For example you can get road bikes, sand bikes, water bikes and mountain bikes. These bikes are made from parts and materials that will help them work, move and grip on the ground they are ridden on.

Mountain bikes are ridden on rocky and muddy terrain and need materials that are light, wheels that are grippy and pedals that don't slip. Whereas water bikes have propellers and a hydrofoil to help them glide along the water. Take a look at the pictures and see what adaptations they have to make them easy to ride.

For some ideas on how mountain bikes are made take a look at the following link:

<https://www.bbc.co.uk/bitesize/clips/zf8fb9q>

For our winter competition this year we want you to design a bike that can be ridden on snow. Take a look at the next page for the entry form and more details. Entries must be submitted by someone over 18 years old. Please ask your parent or guardian to do this.



Design a Snow Bike



Think of things that can travel across or through snow! Bonus points for aesthetics and labels!

We want you to design and draw a picture of a bike that has been adapted so it can be ridden through snow. The bike cannot have a motor and must be powered by a form of pedalling. Think of the best material to use for your bike. Top designs can win a Bike, Scooter or winter cycling gloves!

Name:

Age:

School:

Class:

Please get an adult (over 18) to submit entries to:

dorsetschools@sustrans.org.uk