

STEM: Squashed Tomato Challenge

Introduction

In Nepal many farmers living on the mountainside grow fruit and vegetables, including tomatoes. To earn a living they need to sell these at the local market. The problem is getting to market involves a long, dangerous walk down the mountain side and over a river, at the end of which the tomatoes may well be a bit squashed..



Your Challenge!

Imagine you are a group of engineers working together on Global Goal 11. You need to find a way to help farmers in Nepal transport their tomatoes down the mountain to market.

- The tomatoes must be transported a minimum of one metre, not touching the ground.
- The tomatoes cannot be touched whilst they are moving, catapulted or 'flown' in any way! They must be moved in a controlled way.

Things to think about

You will need to think about:

- whether you want your model to float and if so, how you can make it do so.
- how to make the top of your model suitable to grow crops on. Does it need to be flat? Layered?
- the size of your model. It needs to be tested by placing it on water in a washing up bowl or sink.

Reflection Questions

What should I do first?

Is something confusing me?

Could I explain this to someone else?

Where can I look for help?

How can I do it better?