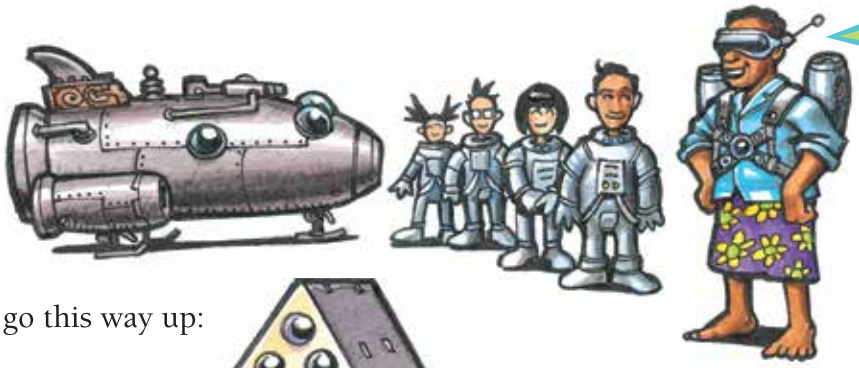
Delta Island

Future

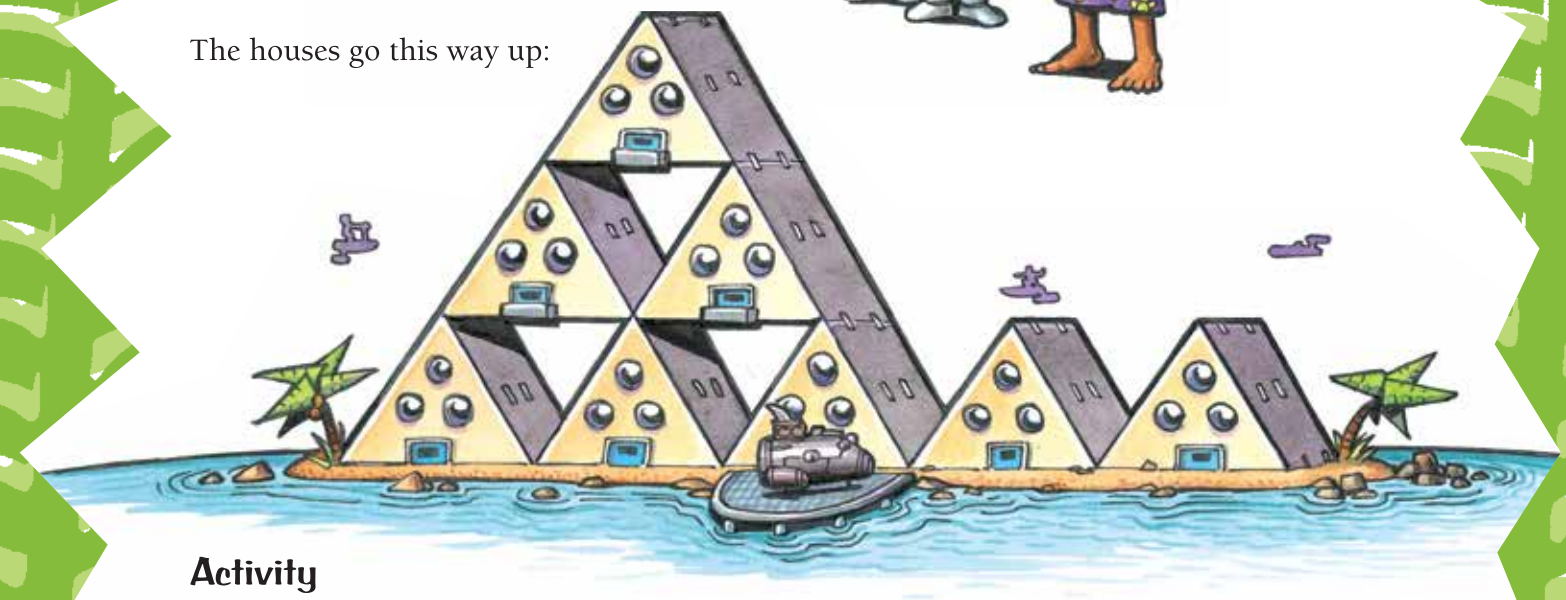
You need ☑ plastic equilateral triangles

The *Space Waka* lands on Delta Island, 1 000 years in the future.



Welcome to Delta Island. We all live in A-frame houses.

The houses go this way up:



Activity

1. There is no more room on Delta Island to build houses along the ground. The Delta Islanders must build upwards. Use triangles or draw a diagram to see how many more A-frame houses can be built on Delta Island.

2. Up to 20 people can live in each house. Delta Island's population will grow to 310 people in 10 years' time. If they build as many houses as space allows, will everyone have somewhere to live?

I've invented an anti-gravity machine that means people can live in an upside-down house!

3. How many houses can fit on Delta Island now?

4. If global warming causes the sea level to rise and covers the bottom row of houses, will there still be enough room for the 310 people on the island:

   a. without the anti-gravity device?

   b. with the anti-gravity device?