## Making triangle patterns

This task is about shape patterns and how they change.
In this task you:
. use straws to build a pattern,
. make a prediction about how many straws you need for more patterns and . write an explanation.

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a) Your teacher will give you 3 straws. Use these straws to make a triangle.

b) Your teacher will give you 2 more straws. Add these 2 straws onto the triangle you have made so there are 2 triangles touching side by side.

c) Your teacher will give you 2 more straws. Now add these 2 straws onto what you have already made to make 3 triangles touching side by side.

d) How many straws did you use altogether to make 3 triangles? $\qquad$
e) How many straws would you need altogether to make 4 triangles? $\qquad$
f) How many straws would you need altogether to make 5 triangles? $\qquad$
g)i) How many straws would you need altogether to make 10 triangles? $\qquad$
ii) How did you work this out?

