Failsafe network

Working in groups of six, experiment with making the most failsafe network design.

 Years 5-6

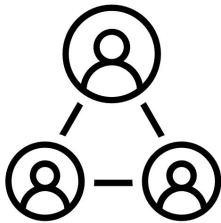 Groups of 6

 20 minutes

 Pens/paper
9 pieces of string

Student instructions

Each person in the group represents a node (a computer capable of sending and receiving information).
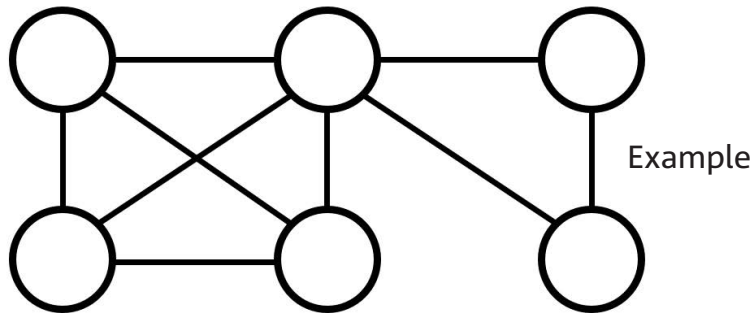
The string you have been given represents a connection between nodes (sends information between the two nodes it connects).

Nodes can send information if they are directly or indirectly connected by string.

Create your network by holding one or more pieces of string in your hand. Each strong can only he held by two people.

Example

Network failure

Your teacher is going to come around and four pieces of strong per group.

Record the largest number of nodes in your group.

Which group had the largest remaining connecting cluster of nodes?

CSIRO