EARTHQUAKES
ACTIVITY SHEET

2017 YEAR OF RISK

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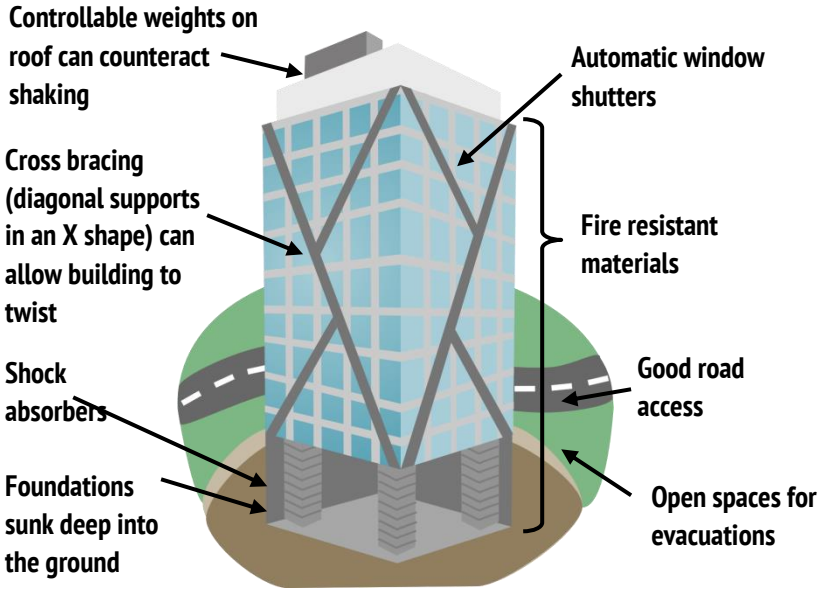
EARTHQUAKE PROOF BUILDINGS



YOU WILL NEED:

- Paper straws/lollipop sticks
- Card
- Masking tape
- Tray
- 3x 50g weights (whatever you have handy!)

Engineering buildings to withstand earthquakes is extremely important in earthquake-prone areas. New buildings can be designed from scratch to be earthquake resistant and older buildings can be retrofitted with new technologies to help stop them collapsing in an earthquake.

The diagram opposite shows some of the ways buildings can be designed in order to help save lives during an earthquake.

DESIGN AN EARTHQUAKE PROOF STRUCTURE

Use the space below to design your own earthquake resistant structure. Your structure must be at least 30cm tall, have 3 floors and each floor must be able to support a 50g weight. Make sure to label your structure clearly and to work out how much of each material you will need.

MY STRUCTURE DESIGN

MATERIALS I NEED

_____ paper straws/lollipop sticks

_____ sheets of card

1 roll of masking tape

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BUILD YOUR EARTHQUAKE PROOF STRUCTURE

Using your materials build your earthquake proof structure. Remember that your structure must be at least 30cm tall, have 3 floors and each floor must be able to support a 50g weight!

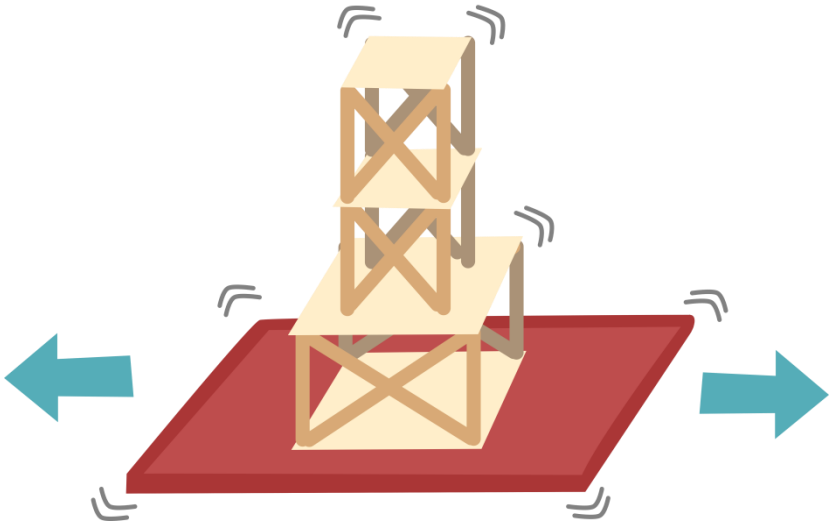
Take a picture of your structure and stick it in the photo frame opposite!

TEST YOUR EARTHQUAKE PROOF STRUCTURE

Place your structure and your weights on a tray and slide the tray backwards and forwards on a table. To survive the earthquake your weights must not fall off and the structure must not collapse for 10 seconds!

Did your structure survive the earthquake?

Yes **No**



If you were to make it again, how would you improve your structure?

_____

_____

_____

_____