

Which join actually holds?

engineering

What you need: equal card strips about 15 cm long · sticky tape roll · split pins · round-tip scissors · scrap card for triangular gussets · 1c coins or small metal washers · string and light paper cup or clip loop for hanging loads · hole punch · scrap paper for load jottings · Investigation Journal page · optional pre-dried PVA join samples (extension only)

Words to use

Join · Firm join · Pivot join

Our question

Which join holds the most load before it fails, and how does each join fail?

I predict...because...

Words to sort

sticky tape join · split pin join · triangular gusset join

Does this join lock the parts so they cannot swing, or does it let the parts pivot around the joint?

Group 1	Group 2	Group 3

What I found out