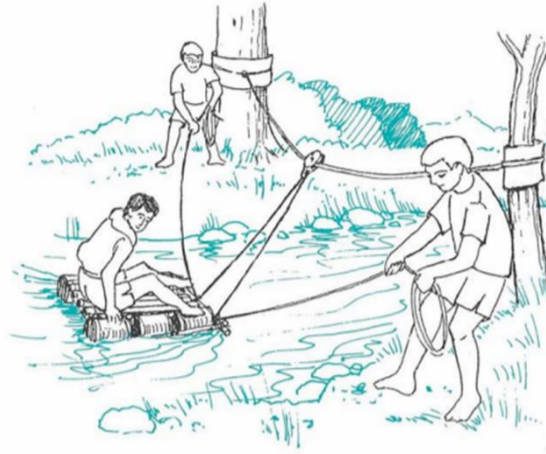




Scouts
QUEENSLAND

Pioneering Pulleys

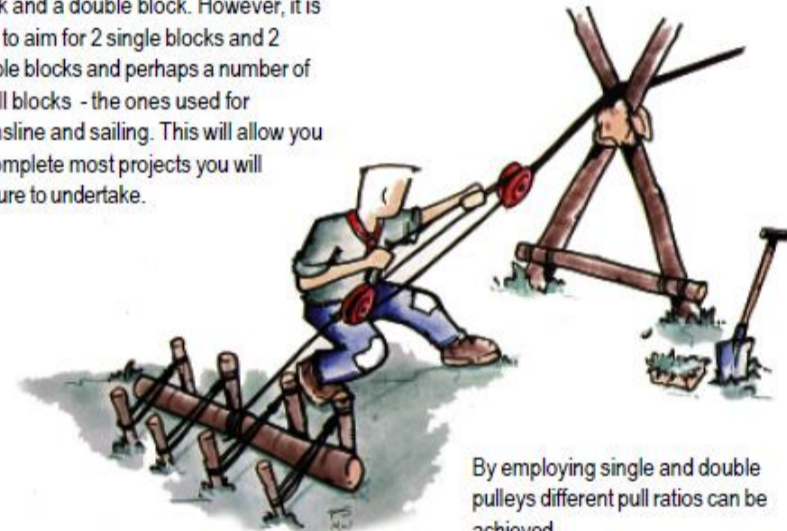


Ferry raft

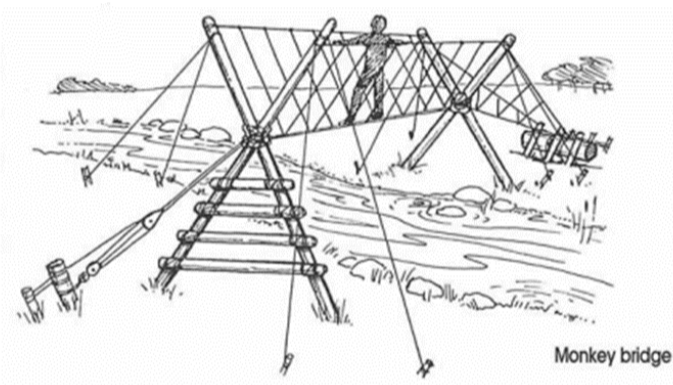


The size of your blocks will need to be:-
150mm for 50mm rope
230mm for 75mm rope

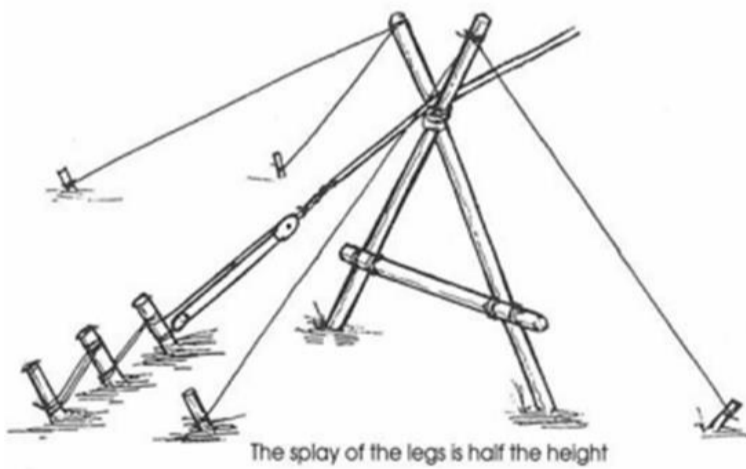
Most pioneering projects can be completed using 2 pulleys - a single block and a double block. However, it is best to aim for 2 single blocks and 2 double blocks and perhaps a number of small blocks - the ones used for clothesline and sailing. This will allow you to complete most projects you will venture to undertake.



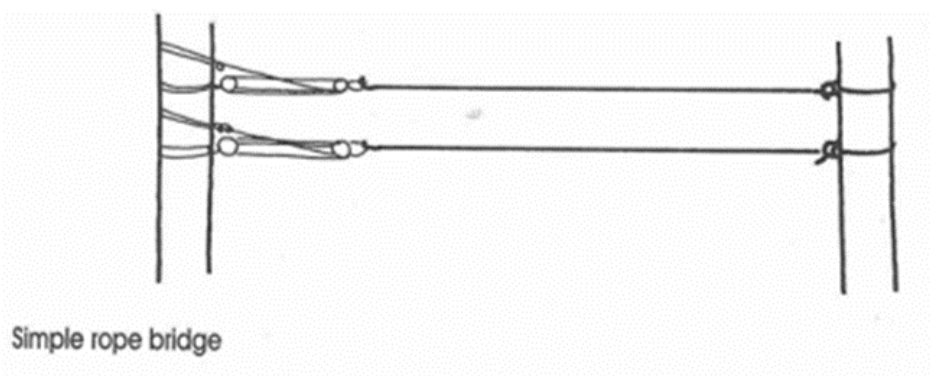
By employing single and double pulleys different pull ratios can be achieved



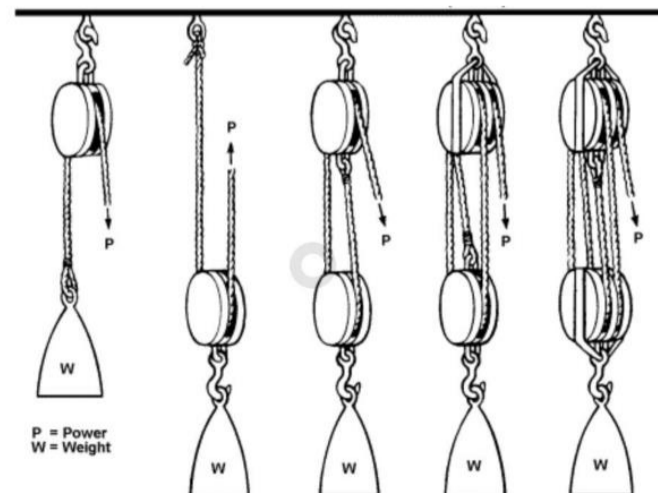
Monkey bridge



The splay of the legs is half the height



Simple rope bridge



P = Power
W = Weight

Power required:	$P = W$	$P = 1/2 W$	$P = 1/2 W$	$P = 1/3 W$	$P = 1/4 W$
Mechanical advantage:	1:1	2:1	2:1	3:1	4:1