

# Wow! That's High!

## Activity

Table 1 below lists the specifications of the ski jump and the landing area used by Kirstie Marshall. Use the information presented in Table 1 to create a drawing of the jump take off point and the landing area. You will need to create a scale for your drawing.

(Hint: 1:100 or 1 cm: 1 metre)

Specification	Measure
Height of jump from base to take-off point	1.2m
Maximum height above jump achieved by Kirstie	1.2m
Angle of slope from base of jump to landing point	50°
Horizontal distance travelled from jump to landing	20m
Vertical distance from top of jump to landing point	11m

Table 1



## FACT FILE

*Kirstie Marshall is Australia's world champion snow skiing aerialist. She approaches the ski jump, building up speed to take off at 54km/hour. She then performs several twists and turns in mid air before executing a perfectly controlled landing on two skis some twenty metres beyond the jump! Kirstie is famous for perfecting extremely difficult jumps including triple somersaults with twists. The ski jump and the slope must be carefully prepared to exact specifications to ensure the safety of the aerialists.*

## Challenge!

Measure these distances on your basketball court or in your gymnasium to understand just how high and how far Kirstie Marshall travels on her skis! Try jumping from a chair and landing without even the slightest wobble to see how difficult it is for Kirstie to “stick” a perfect landing and win a gold medal!