

Example Sheet 1: Simple Ground Profile (Beginner)

Survey Description:

A straight survey line across gently sloping ground.

Temporary Benchmark (TBM):

Assigned height = **10.000 m**

Level Record Sheet

Point	Backsight (BS)	Intermediate Sight (IS)	Foresight (FS)	Height of Instrument (HI)	Reduced Level (RL)
TBM	1.250			11.250	10.000
A		1.430		11.250	9.820
B		1.610		11.250	9.640
C		1.320		11.250	9.930
D			1.500	11.250	9.750

Task for Learners

- Use the **Reduced Levels (RL)** to plot a profile diagram
- X-axis = distance (e.g. 0 m, 5 m, 10 m, 15 m)
- Y-axis = height (metres)

Example Sheet 2: Varied Terrain with Instrument Move (Intermediate)

Survey Description:

Survey across uneven ground with a hollow and a raised area.

TBM Height: 20.000 m

Level Record Sheet

Point	Backsight (BS)	Intermediate Sight (IS)	Foresight (FS)	Height of Instrument (HI)	Reduced Level
TBM	1.100			21.100	20.000
1		1.450		21.100	19.650
2		1.780		21.100	19.320
CP1			1.900	21.100	19.200
CP1	1.300			20.500	19.200
3		1.100		20.500	19.400
4		0.950		20.500	19.550

Task for Learners

- Plot the profile and identify:
 - The **lowest point**
 - Where the ground begins to rise
- Mark the **change point (CP1)** on the diagram

Example Sheet 3: Archaeological Feature Profile (Advanced)

Survey Description:

Profile across a low earth bank and ditch.

TBM Height: 15.000 m

Level Record Sheet

Point	Backsight (BS)	Intermediate Sight (IS)	Foresight (FS)	Height of Instrument (HI)	Reduced Level
TBM	0.980			15.980	15.000
A		1.100		15.980	14.880
Bank Crest		0.750		15.980	15.230
Ditch Base		1.650		15.980	14.330
B			1.200	15.980	14.780

Task for Learners

- Plot the profile clearly
- Label:
 - **Bank**
 - **Ditch**
- Write one sentence explaining how the diagram shows human modification of the landscape