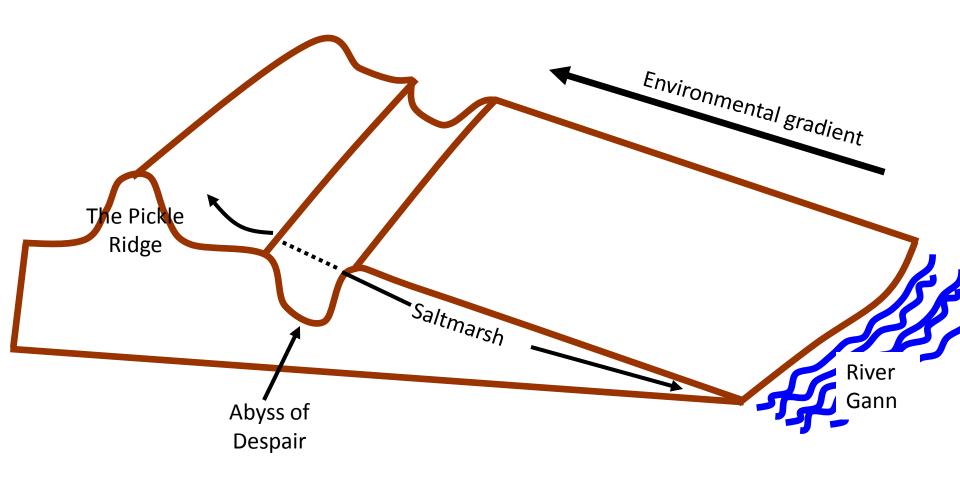
Saltmarsh Investigation

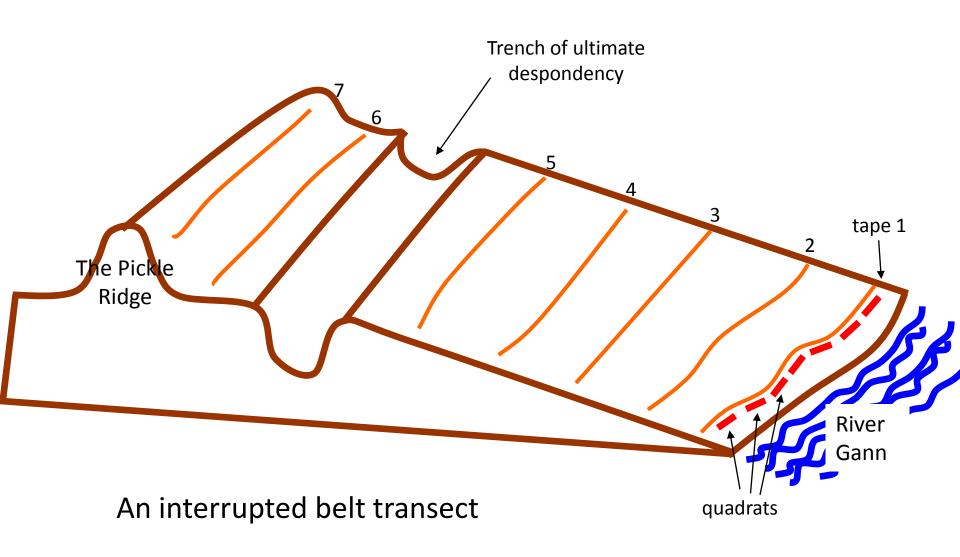
Aim: To investigate changes in vegetation with increasing height up a saltmarsh

Site: The Gann Saltmarsh Grid reference: SM 815 074

Aspect: South-East Low tide: 1.85m at 09.00 (BST) Date: 22.06.14



Sample Layout



Identifying plants

Look at the plant you are trying to identify. You can't see small plants if you are standing up

Use dichotomous keys, or if this fails ask

Please do not rip plants up from the marsh and bring them to your tutor; he/she is happy to walk to where you are and advise you

Treat the saltmarsh and its inhabitants with care

Identifying plants

Write down 3 top tips for identifying plants

Look at the plant you are trying to identify. You can't see small plants if you are standing up

Use dichotomous keys, or if this fails ask

Please do not rip plants up from the marsh and bring them to your tutor; he/she is happy to walk to where you are and advise you

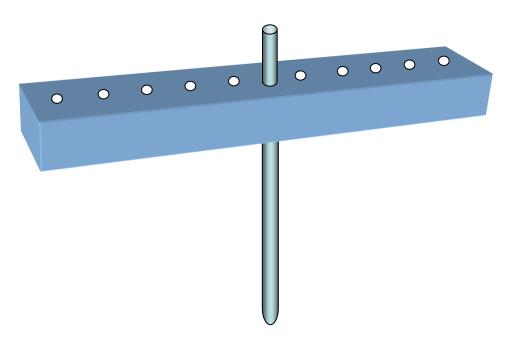
Treat the saltmarsh and its inhabitants with care

Measuring abundance of vegetation

A quadrat is a sample area of any size or shape:

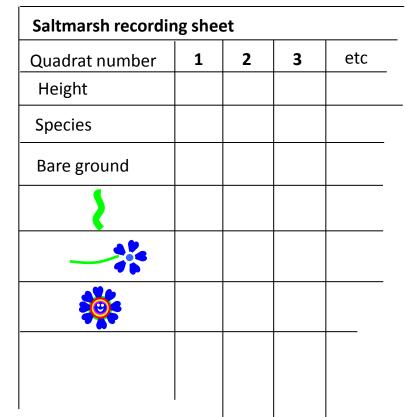


A pin



A point quadrat

Stick the pin through each hole in turn and record which species it touches

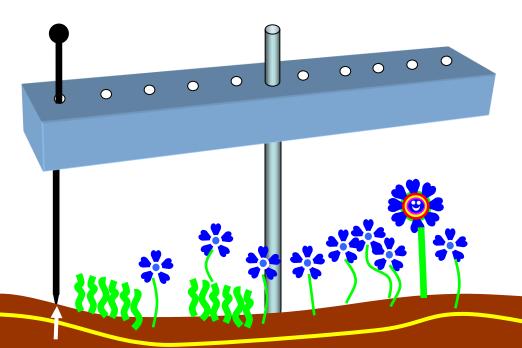


This pin has hit nothing but bare ground

Site 1

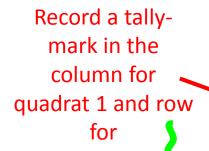


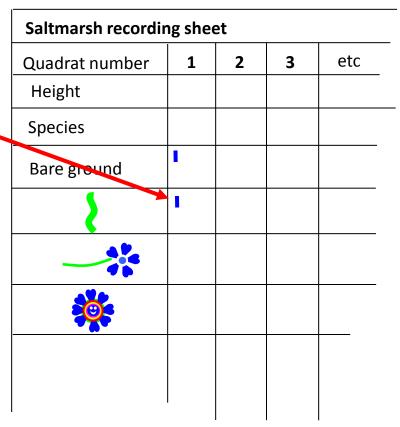
Record a tallymark in the
column for
quadrat 1 and row
for bare ground

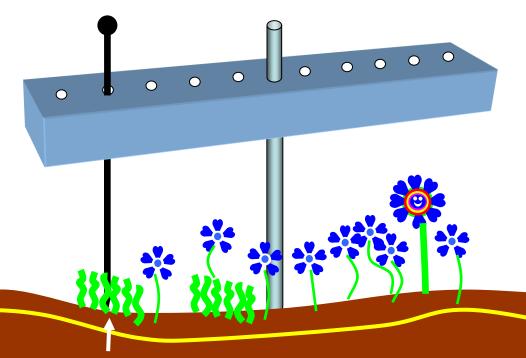


,				
Saltmarsh recording sheet				
Quadrat number	1	2	3	etc
Height				
Species				
Bare ground	I			

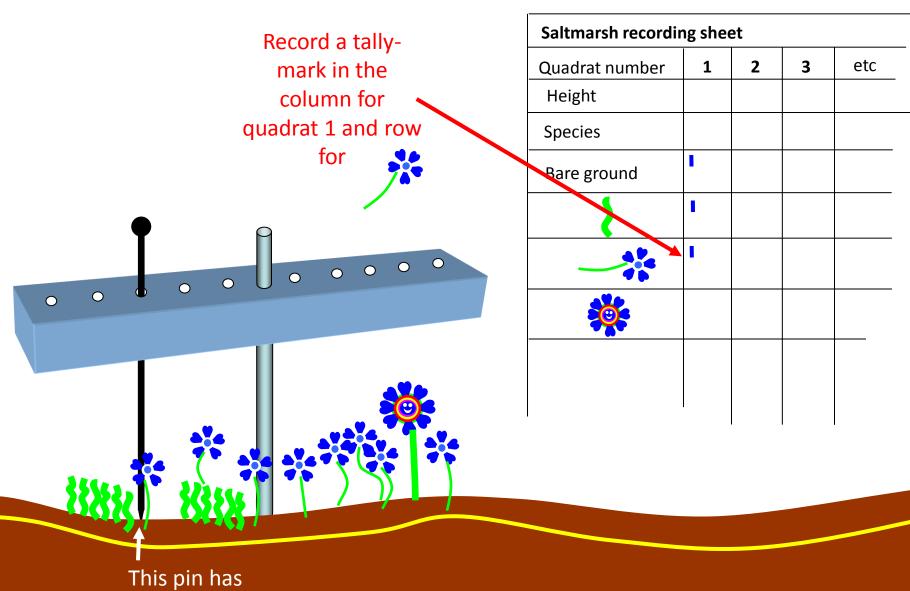
This pin has hit nothing but bare ground



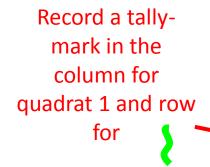


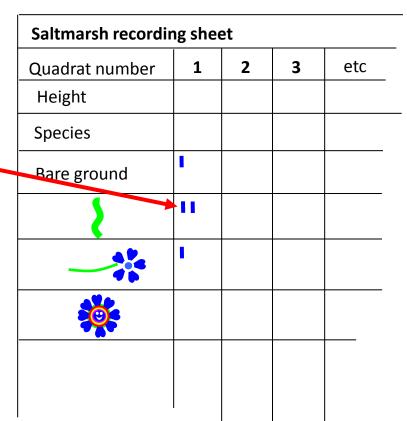


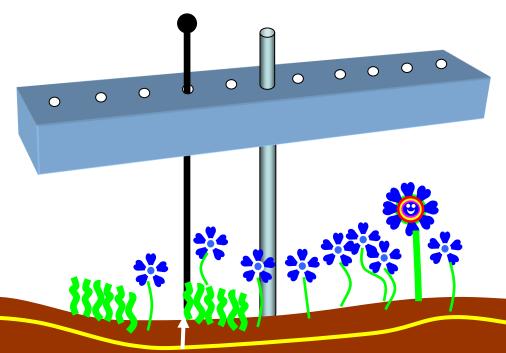
This pin has hit



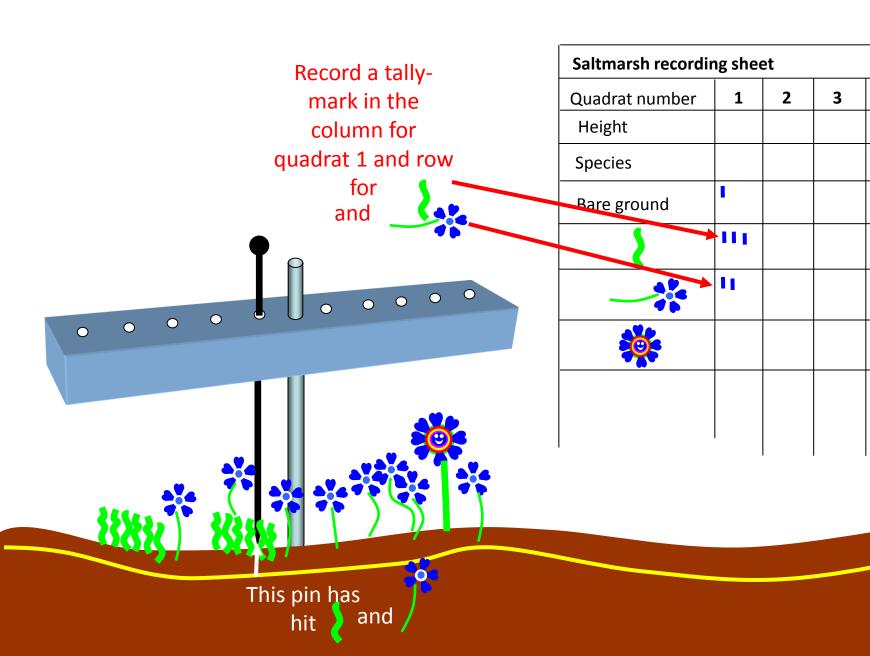
hit hit



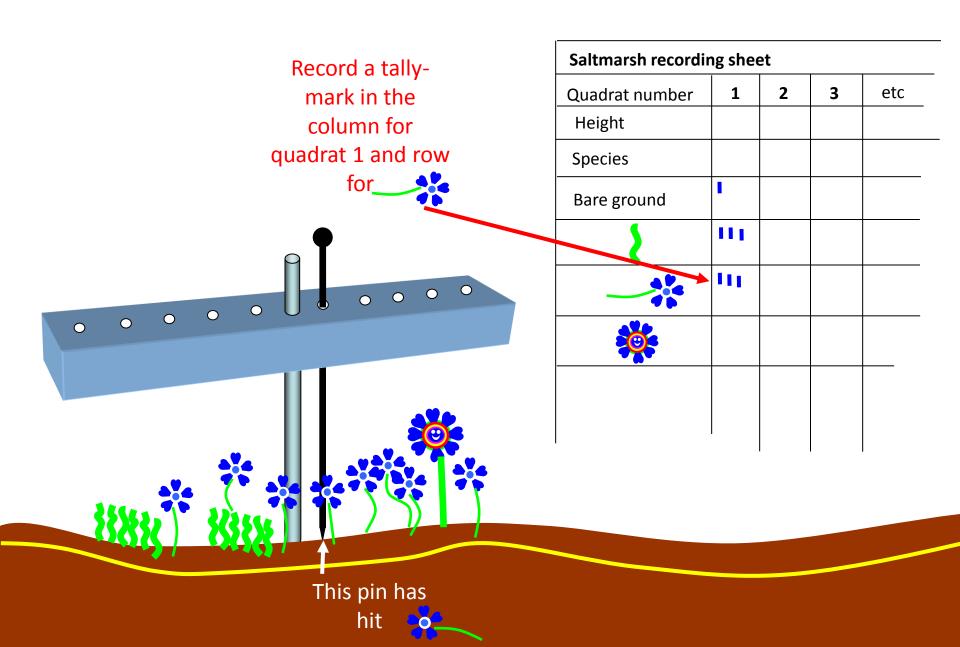


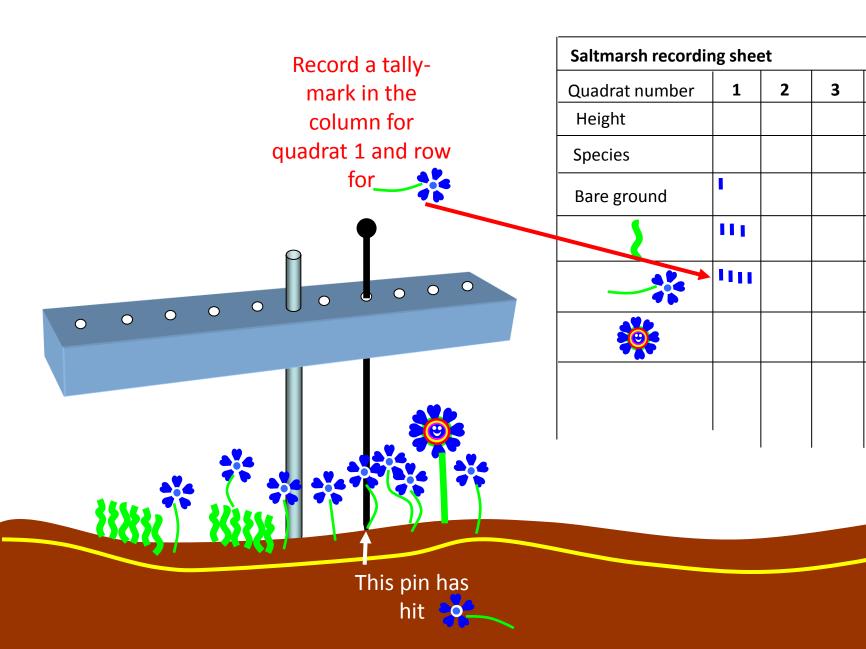


This pin has hit

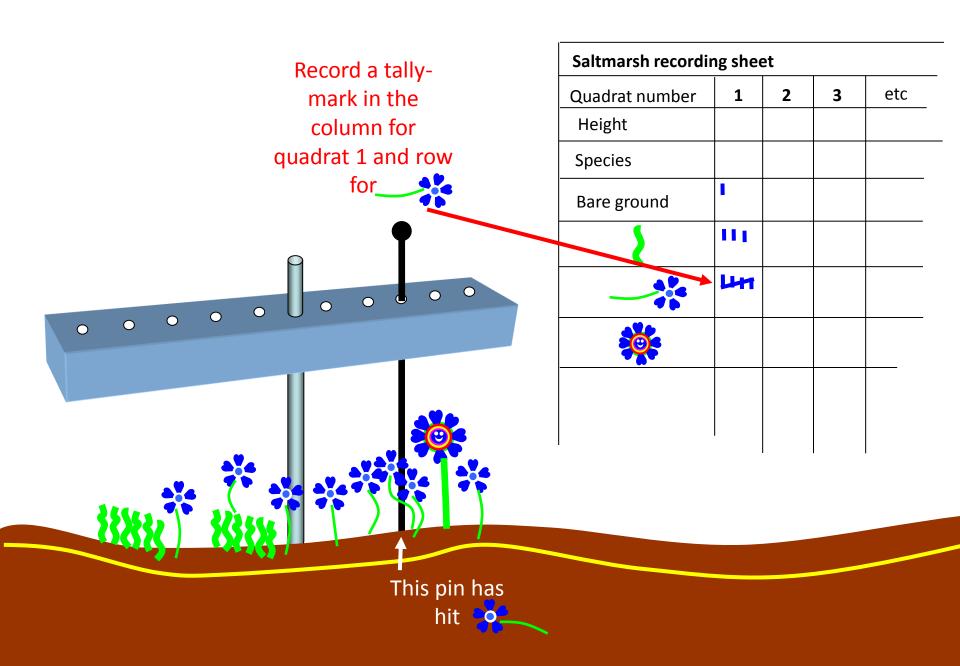


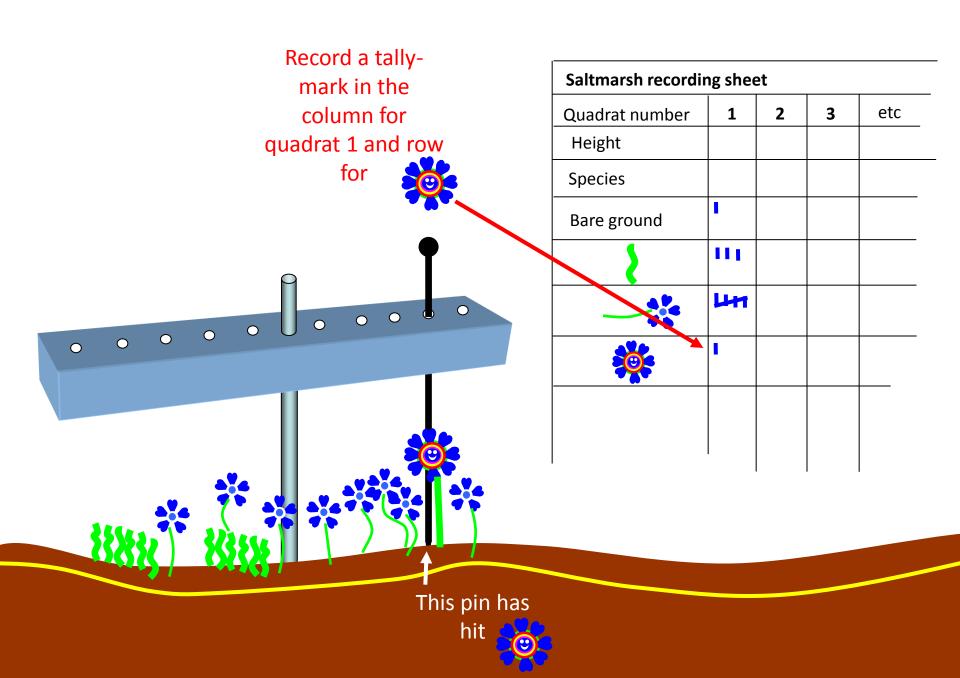
etc

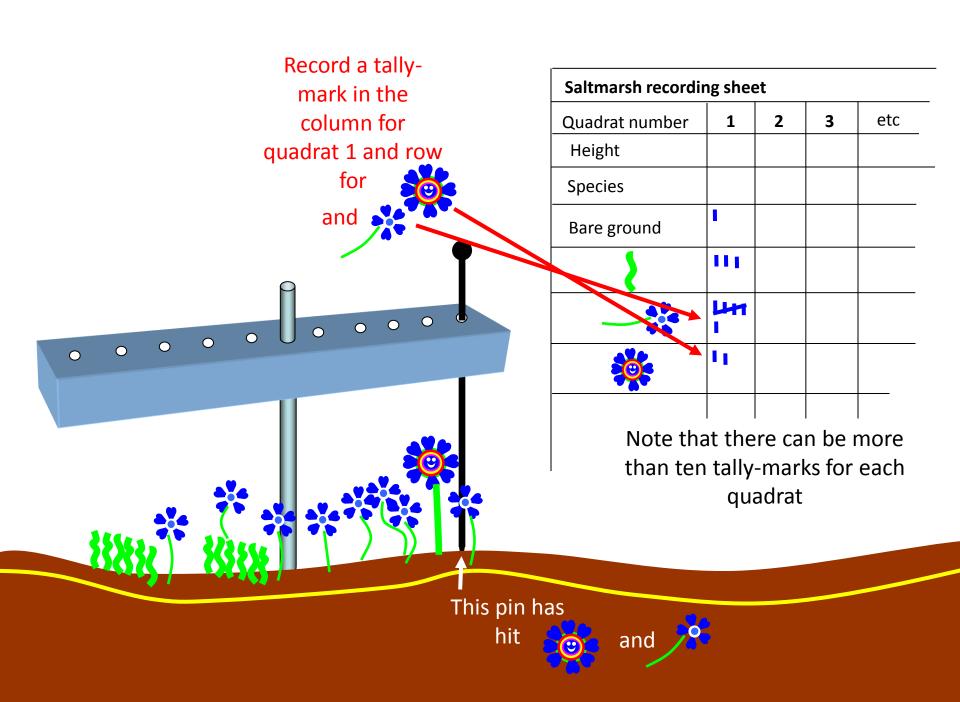




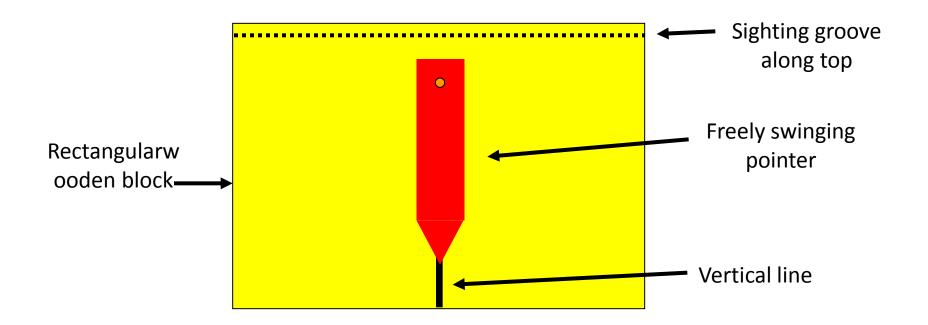
etc





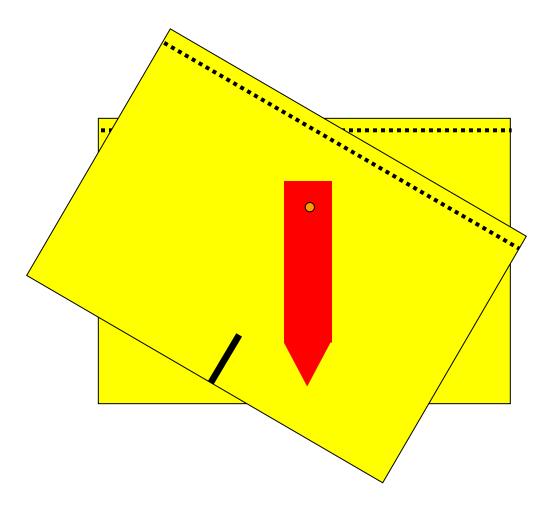


Height Measuring

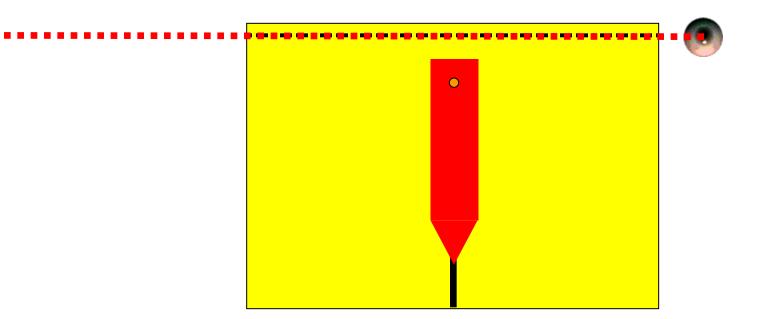


A simple level/clinometer

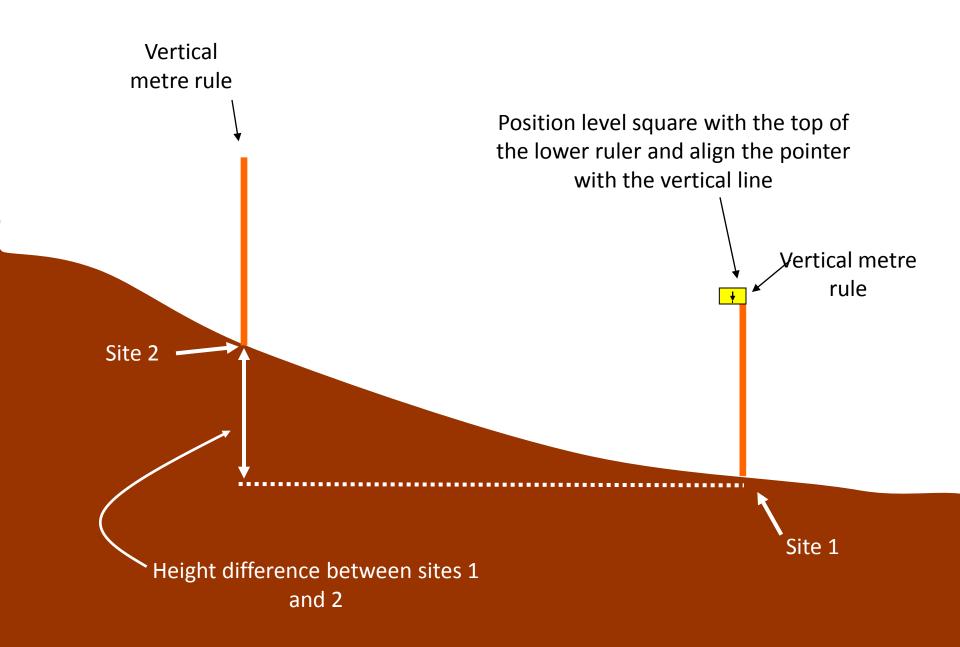
(Photon activated uniangular clinometrical device)



Tilt the level and the pointer swings out of alignment with the vertical line

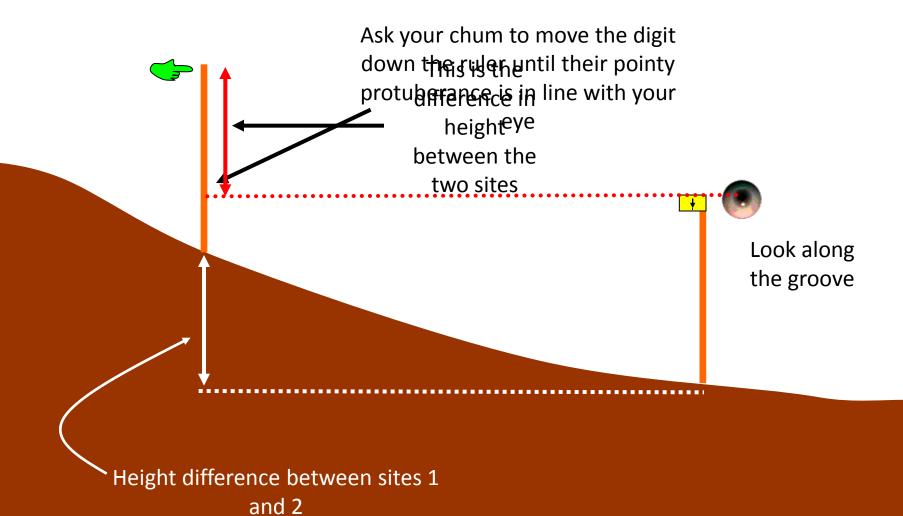


When the pointer is aligned with the vertical line the level can be used to sight horizontally



Find a friend with a finger





Risks

- Tides
 - Check tide times
 - Keep an eye on the water

Low tide:m at 1.33

Hide tide: ...m at 7.33

- Roads
 - Be careful on the road, listen to instructions
- Equipment
 - Only use equipment for it's intended purpose



- Weather
 - Waterproofs/suncream
- Mud
 - keep moving to avoid getting stuck!
 - Wear wellies!





Trench of Doom!

Each group needs the following equipment:

One point quadrat with leg and pin

One key to saltmarsh plants

One saltmarsh recording sheet

One simple level

Two metre rules

Wellies (or get very muddy feet)

A positive attitude towards mud, lunch(?), a pencil, a clipboard, maybe a plastic bag

