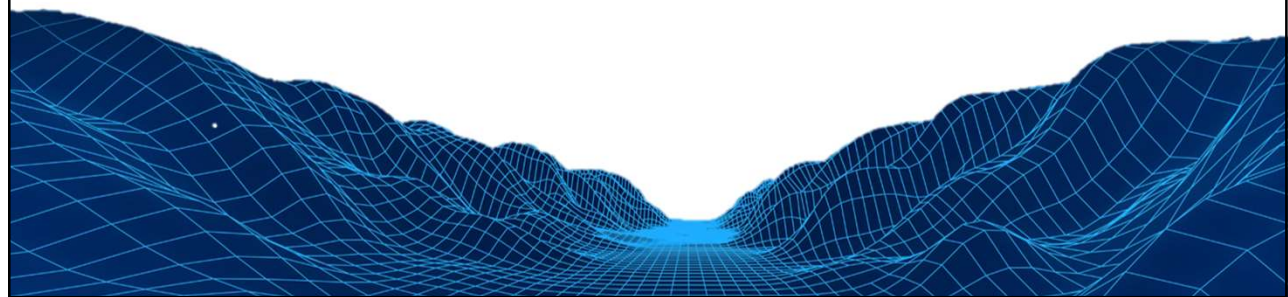




Every young person should know about
surveying as a career.
- A Scout initiative.



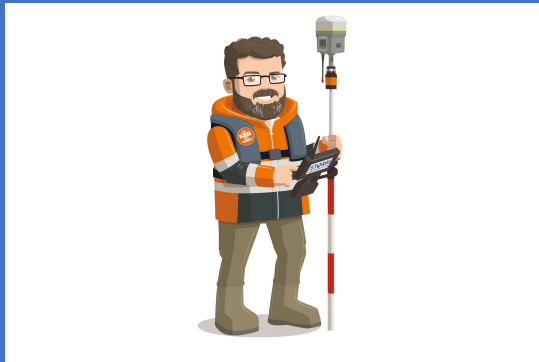
1

So.... what is land surveying and
what do land surveyors do?

2



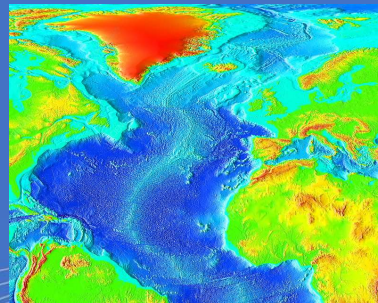
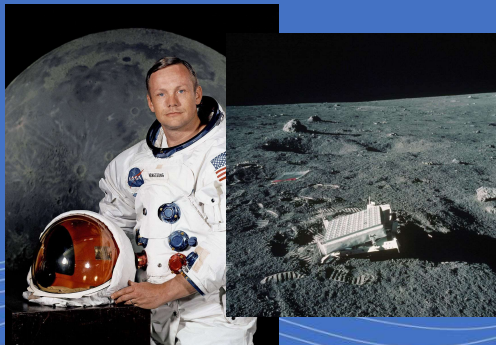
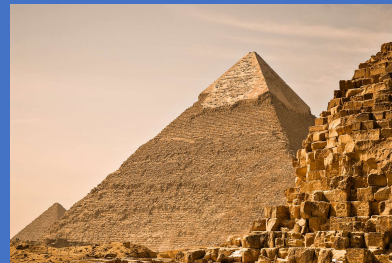
LAND SURVEYING



Measure and map features and boundaries on earth's land, sky and sea.

3

What are some examples of geospatial Projects they will have heard of?



4



Types of surveyor



5

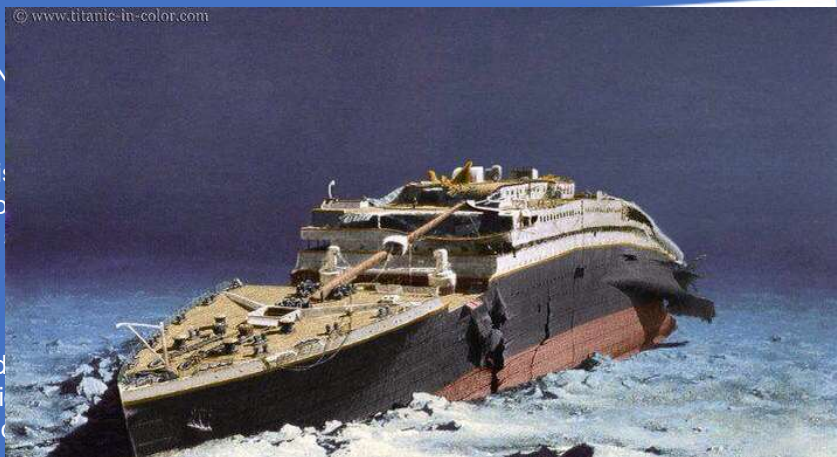
Hydrographic Surveyor

- The science of measurement and description of features which affect maritime navigation, marine construction, dredging, offshore oil exploration and drilling and related activities.

Robert Ballard
surveyor— 1985

Secret reconnaissance
wreckage of two
powered attack
instead found...

- Planning and
- Nautical navigation
- Offshore wind
- etc.



6

Topographic Surveyor

- To gather spatial information relating to the site and its natural and man-made land features.

Bradford Washburn – 1999, Topographic Cartographer
 - GPS equipment was carried to the summit of Mt Everest and found it was in fact 7 feet taller than previously recorded.



7

Other types of surveying

- Building/ construction
- Mine surveyors
- Land surveyor
- Quantity surveyor
- Forensic surveyor
- Topographic surveyor
- Aerial surveyor – Drones/Planes



8



What is GPS?



GNSS/GPS

A satellite navigation or satnav system is a system that uses satellites to provide autonomous geopositioning.

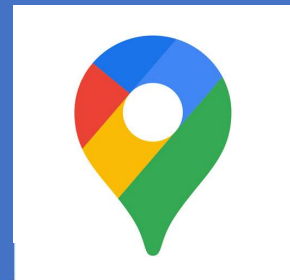
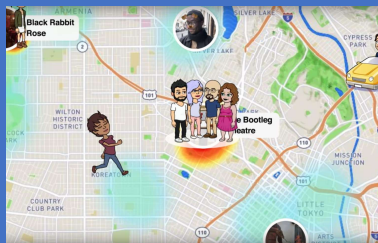
Global Navigation Satellite Systems

- GPS/Navstar – American
- GLONASS – Russian
- Galileo – European
- BeiDou – Chinese
- Quasi Zenith – Japan
- NAVIC - India




How do you use GPS?

9




what3words

10



THE SURVEY
ASSOCIATION

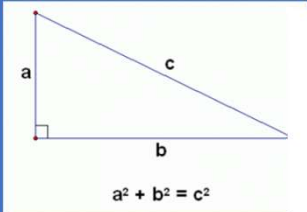


Scouts

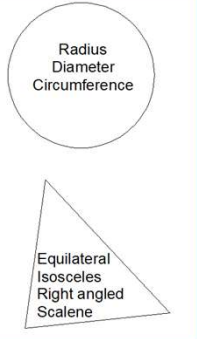
STEAM

Science, Technology, Engineering, Arts, Maths

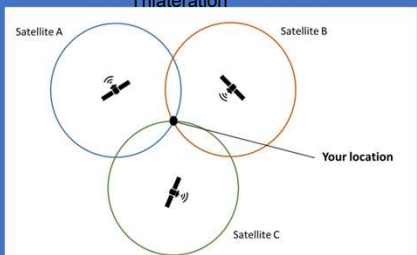
Pythagoras theorem



Geometry



Trilateration



11



THE SURVEY
ASSOCIATION



Scouts

Storm in Surveying

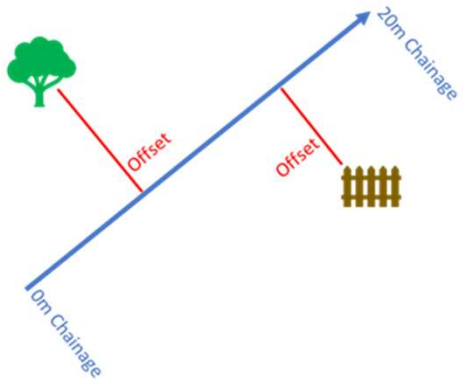
(Insert your own projects here)






12

Chainage and Offset Survey



What3Words

