Pre-field trip survey

**Field trip:** *What lies beneath? Discovering the secrets of our seabed*

The following questions are crafted to assess ākonga understanding and thoughts on surveying the seabed. They are also designed to spark interest in the hydrographic field trip.

1. What is hydrographic surveying **mainly** about?
   1. Discovering ancient shipwrecks
   2. Mapping the ocean floor
   3. Predicting the weather
2. How can detailed 3D maps of the seabed benefit us **the most**?
   1. Improve navigation and safety
   2. Help us find hidden treasure
   3. Predict earthquakes
3. What do scientists use to measure the depth of the ocean floor?
   1. Rulers
   2. Echo sounders
   3. Compasses
4. Why is mapping the seabed important for boaters?
   1. To find buried shipwrecks
   2. To avoid running aground
   3. To catch more fish
5. What is the purpose of seabed mapping in marine research?
   1. To create colourful underwater art
   2. To discover new species
   3. To understand and protect marine ecosystems
6. Which technology is NOT used for seabed mapping?
   1. Mobile laser scanning
   2. GPS
   3. Submarine robots
7. What is one way hydrographic surveying can help in predicting floods?
   1. By controlling the weather
   2. By creating a flood barrier
   3. By modelling potential flood areas
8. How can geospatial technology support marine management?
   1. By helping to define where protected marine areas should be
   2. By counting fish in the ocean
   3. By letting people know where to build sandcastles on the beach
9. What is a potential career related to hydrographic surveying and technology?
   1. Commercial fisher
   2. Professional surfer
   3. Hydrographic surveyor
10. Why is it essential to understand our marine environment?
    1. To find the best fishing spots
    2. To make informed decisions about protecting it
    3. To know where to build sandcastles on the beach