

RYA Power Boat Level 2

WEATHER

1. In one sentence, describe what causes weather
2. What is an Isobar
3. What is a Front
4. Give another name for 'high pressure'. Does the surrounding air mass circulate clockwise or anti clockwise
5. What are the physical effects of a steep pressure gradient seen on a synoptic chart
6. How will a strong offshore wind affect your operating area
7. In a shipping forecast what is meant by 'moderate sea' & 'poor visibility'
8. What in a shipping forecast is meant by 'imminent'
9. Where could you get your weather forecasts
10. How many knots of wind do you associate with Beaufort Scale 5

Tides

1. What causes tides
2. How many tides are there a day
3. What is the 'tidal range'
4. What is a 'spring' tide and what is a 'neap'
5. How many springs and neaps are there in a month
6. What is the rule of twelfths
7. Describe another method of calculating the height of the tide
8. How does the tide affect your operating area

Charts

1. What is chart datum
2. What does a negative depth signify on a chart
3. What is a tidal diamond
4. What is compass variation
5. Where on a chart would you measure distance
6. What is a Nautical Mile

Navigation

1. Briefly describe how to use a Portland or Breton Course Plotter
2. What is a Transit Line and how can it help you.
3. Draw the 4 Cardinal marks and indicate the cone positions, colours, and light sequence of each
4. Which side would you pass a westerly cardinal mark, N,S,E or W
5. Draw the 2 Lateral marks or Channel Buoys and indicate the shapes, names and colours of each
6. On which side should the Lateral marks be when entering a Harbour.
7. Draw and colour the following marks a) Isolated Danger b) Safe Water c) one Special

Seamanship

1. On a head on situation, to which side do you turn
2. On a converging course who has right of way
3. How would you interpret a small stationary boat flying a blue and white flag
4. If a large vessel was sounding its horn what would you interpret from
 - a) 1 blast b) 2 blasts c) 3 blasts d) 5 blasts
5. In fog what sound would you expect to hear from
 - a) a motor vessel and b) a sailing vessel and how frequently
6. Name 4 distress signals
7. Name 6 pieces of essential safety equipment in order of importance