Questions on ‘Magnetism and electromagnetism’ video

1. If a north pole of one magnet is put next to the north pole of a second magnet, what happens?

2. What is a ‘magnetic field’?

3. Give the names of 4 magnetic materials
   i. 
   ii. 
   iii. 
   iv. 

4. Why is the imaginary magnet in the centre of the Earth upside down?

5. In the electromagnet shown in the video, what is the ‘core’ of the electromagnet?

6. Where does the electricity come from to make the electromagnet work?

7. What is the major advantage of an electromagnet compared with a bar magnet?
8. In a microphone, which part vibrates up and down when sound energy reaches it?

9. What happens to the magnet inside the coil every time this part of the microphone vibrates?

10. When the magnet does this, what effect does this have?

11. Name the 2 energy transfers that take place.

i.

ii.

12. In a speaker, what happens to the metal core (shown by the yellow box) every time an electrical signal passes through the wire around it?

13. What effect does this have on the diaphragm of the loud speaker?

14. When the diaphragm does this, what is the consequence?
15. Name the 2 energy transfers that take place.

i.

ii.