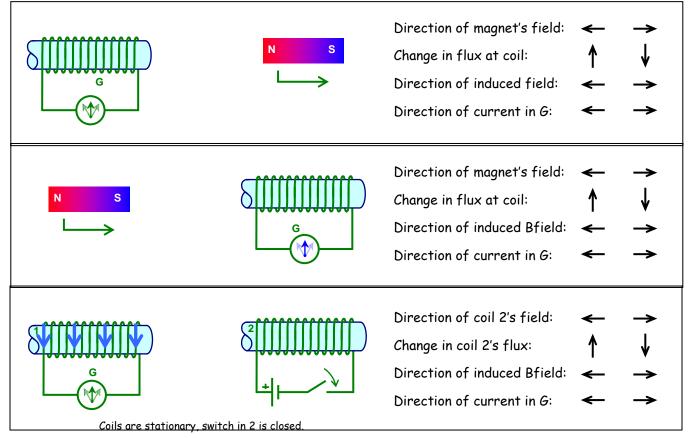


1)<sup>6</sup> For the coils and magnets below, answer the questions to the right, draw direction for the original and induced magnetic fields (B and  $B_{ind}$ ) and current in the front of the coil (up or down).



2)<sup>4</sup> Explain the right hand rules:

example) The force on a charged particle moving in a magnetic field: Place your fingers along the velocity in the direction of motion and curl them to point along B. Your thumb then points in the direction of the force on a positive charge

- **a**)<sup>2</sup> The force on a current segment in a magnetic field (F = IL  $\times$  B)
- **b)**<sup>2</sup> The magnetic field of a current loop



Name \_