## Physics Revision – 17 May 2011 Mr A.C. Norman

now a transformer works
A transformer allows us to change the electrical It only works for This is
because When an alternating current passes through the turns of the, it creates a
which makes the transformer much more efficient. Finally, the in the secondary
coil induces a
Transformer Questions
1. Primary coil: 500 turns, Secondary Coil: 2500 turns. Primary voltage 3 V. Secondary V?
2. Primary coil: 4000 turns, Secondary Coil: 1500 turns. Secondary voltage 85V. Primary V?
3. Primary coil: 20000 turns. Primary voltage 230 V. Secondary voltage 6 V? Secondary turns?
4. Secondary = 54000 turns. Primary voltage 440 000 V, Secondary = 200 000 V. Primary turns
Draw the circuit symbols for a step-up and step-down transformer below
v 1 1 1
Lifecycle of a star
$\longrightarrow$ protostar $\longrightarrow$ $\longrightarrow$ white dwarf $\longrightarrow$ $\longrightarrow$
→
<b>→</b>
Describe how a star creates heat and light at the various stages of its life.
Describe the forces on a star up until the end of the main stage.
Where does hydrogen (1) in our bodies (like in water H <sub>2</sub> O) come from?
Where do elements like oxygen (16), carbon (12), nitrogen (14) and calcium (40) in our bodies
come from?
Where do elements like iron (56), zinc (65) and iodine (127) come from?