

O. R. #8, ELECTROMAGNETISM

A circuit diagram is shown below.



In your Student Answer Booklet, draw this circuit diagram and add four identical light bulbs (W, X, Y, and Z), two switches (S1 and S2), and two fuses (F1 and F2). Your arrangement of these components must meet the requirements listed below. Be sure to read all of the requirements before adding the electrical components.

--Light bulbs W and X have the same brightness.

--Light bulbs Y and Z have the same brightness and are brighter than light bulbs W and X when all switches are closed.

--The first switch (S1) controls only light bulbs W and X, and the second switch (S2) controls only light bulbs Y and Z.

--The first fuse (F1) protects only light bulb Z, and the second fuse (F2) protects the entire circuit.

Use the circuit components shown below. Be sure to label all of the components with the labels given.

