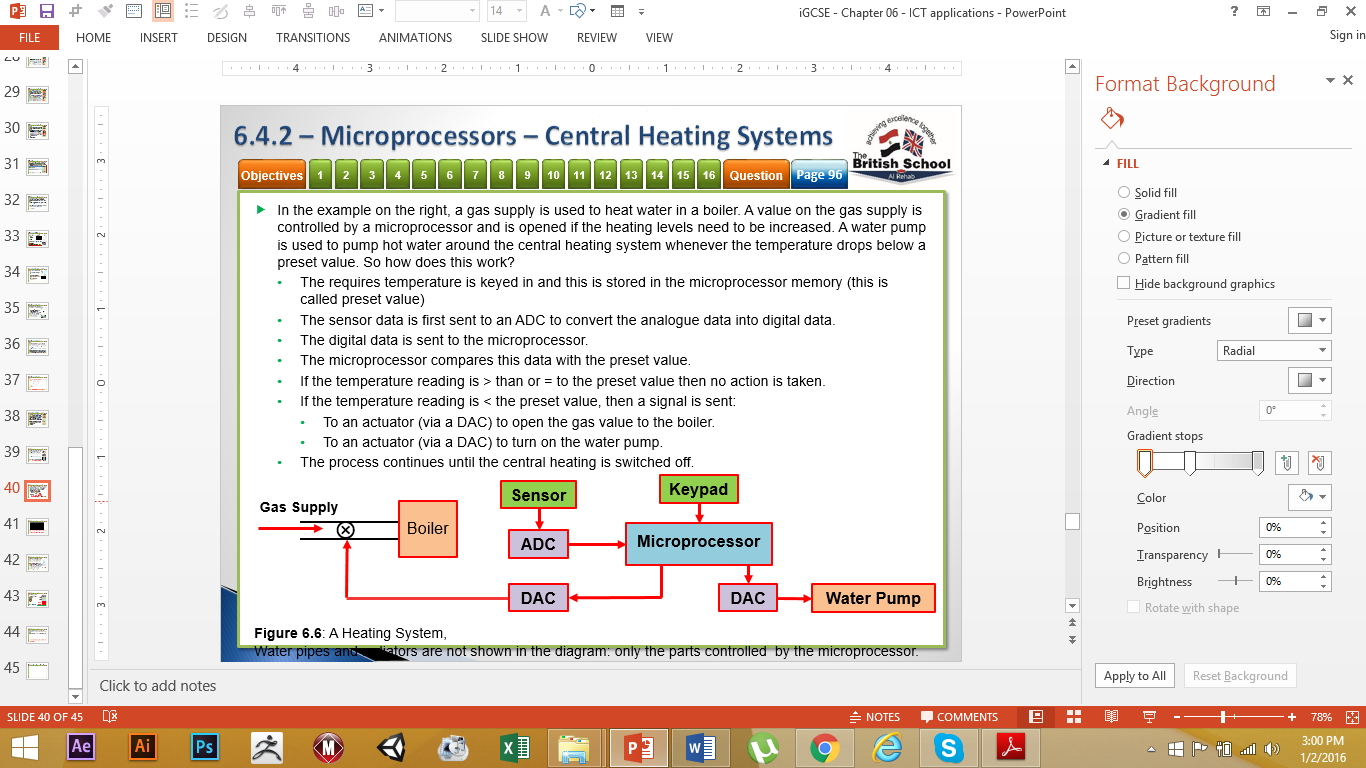
1. (i) Name the sensors needed in the control of an automatic washing machine.

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(ii) Describe how sensors and a microprocessor are used to control the wash cycle in an automatic washing machine.

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1. Look at figure above. Describe how the pH and Light sensor are used to control the soil acidity and light levels in the glasshouse.

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1. A streetlight is turned on when it is dark and off when it becomes light again. What sensor is needed to determine whether it is dark or light?

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1. Describe how the sensors and microprocessor are used to control the switching on and off of the street lamp. Take into account situations such as heavy cloud cover so that the lamp isn’t switched on and off every 30 seconds.

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