

CONTROL 8

# Unit 1, Topic 1 – Introduction to Control Technology

1. Use the Google Classroom code found at Mr. Davis' Yola Site (<http://teacher-mr-davis.yolasite.com>) to join Control 8. Inside "Unit 1, Topic 1 to 7", Create a new Docs. Rename your Doc: "Unit 1, Topic 1 - Control Systems".

2. Make your heading the same as the top of this web page. Always type "Created by [INSERT YOUR NAME HERE]" under your heading in italics.

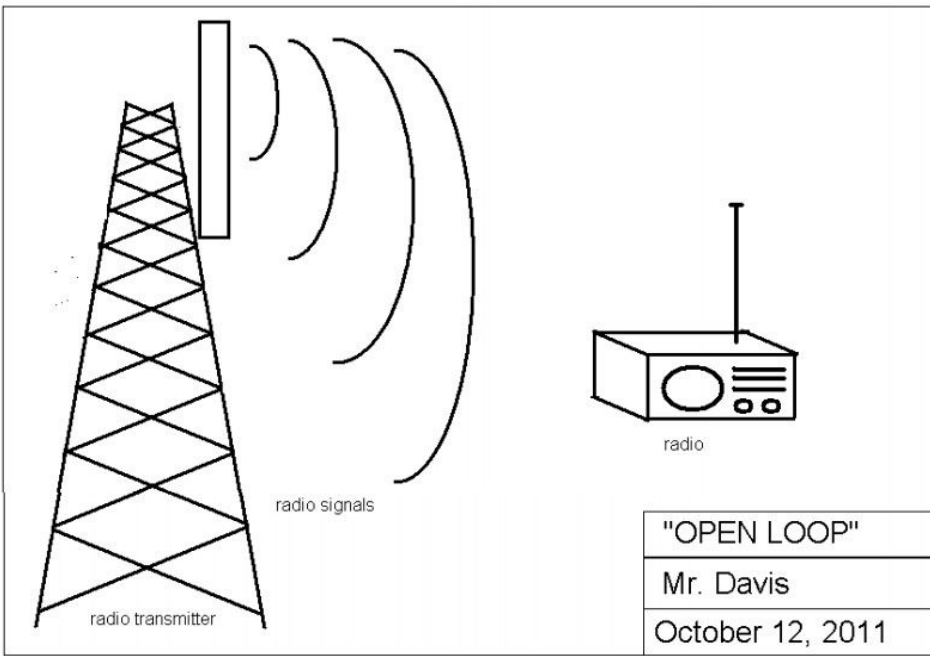
3. Use Wikipedia or Google to find the approximate dates that these control technologies were invented (see the list below). Find a picture of each (preferably with a cut away view). [14 marks]

- a. Water Clock \_\_\_\_\_
- b. Sailboat \_\_\_\_\_
- c. Windmill \_\_\_\_\_
- d. Steam Engine \_\_\_\_\_
- e. Rocket \_\_\_\_\_
- f. AC Electricity \_\_\_\_\_
- g. Nuclear Power \_\_\_\_\_

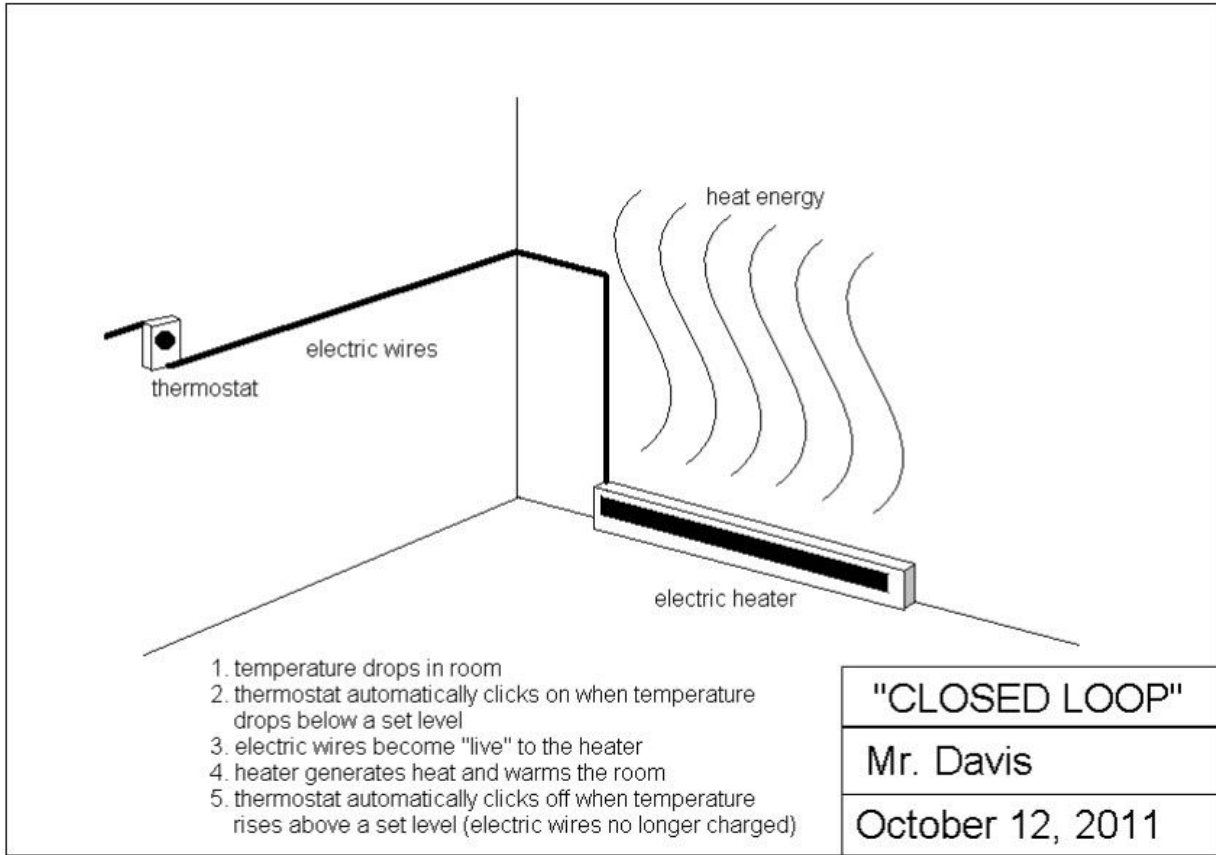
4. Define the following terms: [5 marks]

- a. System
- b. Subsystem
- c. Sensing
- d. Switching
- e. Regulating

5. Draw the following diagram in Microsoft Paint. Save the file in your "H:\Control 8" folder and "Save As" open\_loop.bmp [5 marks]



6. Draw the following diagram in Microsoft Paint. Save the file in your "H:\Control 8" folder and "Save As" closed\_loop.bmp. Insert both images into your page (Insert, Image) [5 marks]



7. What is the difference between open and closed loop systems? [5 marks]

TOTAL: 34 MARKS