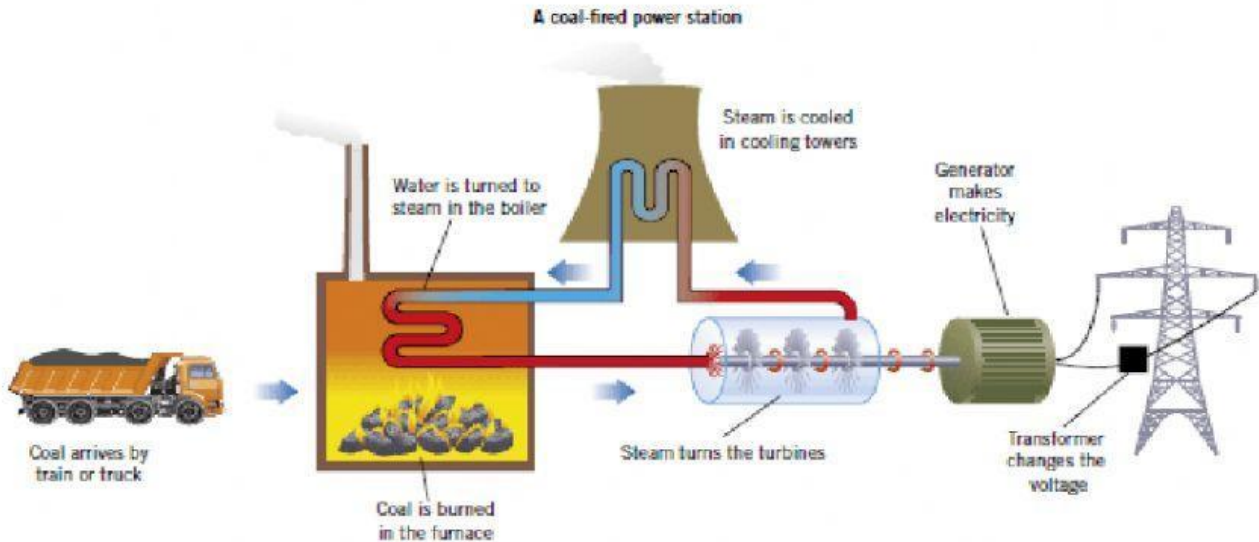


## Grade 8 Generating Electricity Lesson Check

Name: \_\_\_\_\_ Class: \_\_\_\_\_ Date: \_\_\_\_\_

Refer to the diagram below to answer the following questions.



- What type of energy is stored in coal before burning?  
\_\_\_\_\_
- After burning coal in the furnace, harmful gases are produced. List both gases that are released?  
\_\_\_\_\_
- What does each gas mentioned in part b cause (within our environment)?  
\_\_\_\_\_
- What happens to the steam after it turns the turbines?  
\_\_\_\_\_
- If this coal-fired power station releases 55 J of wasted heat energy for every 100 J of energy stored in coal. How much joules of electricity are produced? Show your work.  
\_\_\_\_\_  
\_\_\_\_\_
- The turbines turn generators on to make electricity. List the two components that make up generators.  
\_\_\_\_\_  
\_\_\_\_\_