

Part 1: While working at a laboratory for Owdijtown Pharmaceuticals, you are assigned to an experiment that is studying the effects of different chemicals on cell growth. Fill out the diagram in order to test different chemicals on the cell cycle.

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|  | Internal Regulators | External Regulators |
| What is their function? |  |  |
| What is an example? |  |  |
| How would you scientifically test their effectiveness? |  |  |

Part 2: You are a doctor at Owdijtown Hospital. You were presented with a patient in terrible pain and this x – ray. Use all that you know about injuries and how cells grow in order to diagnose the patient.



1. What bone appears to be broken?
2. How do you think that this bone was broken?
3. Describe how the broken bone will heal if nothing is done to it?
4. What should you do to heal this bone?

Part 3: As an oncologist (a doctor who studies and treats cancer) it is your job to help your patients who are affected by cancer. One of your patients is particularly worried about how his cancer might spread through his body. What would you tell him is one way that cancer can spread through the body?