## MITOCW | MIT5_301F12_Ep10_The_Killing_Curve_300k

JASON: I can still smell it on me. I took two showers.

JULIE: I don't think I ever smelled bad, so you must have something really wrong.
[MUSIC PLAYING]

GUEST

GUEST
SPEAKER:

ETHAN: $\quad 7.0$ milligrams of this, and I don't want to lose any of it.

LINA: I think we're doing really well. We're being so careful. Everything's working out perfectly.

GUEST After a bitter battle over the biggest crystal, Jason and Julie have made up.
SPEAKER:

| JASON: | She did it. She probably spilled it so like, OK, I have an excuse to clean up this and get away from Jason. I didn't say anything. |
| :---: | :---: |
| JULIE: | What did he just say about me? |
| JASON: | She hates me. |
|  | She loves me! Well, she didn't want me to say that. |
| LEALIA: | I think we're almost done. |
| YI-SHIUAN: | We're done. |
| ANTHONY: | You're an awesome partner. |
| TENGFEI: | So tomorrow, we're going to see which tube the bacteria grows and which tube the bacteria dies. If they grow, the culture will become cloudy. |
| GUEST | The next day, all the students have to do is measure how many bacteria are in each tube. |
| SPEAKER: |  |
| PROFESSOR: | This is how, when you make a drug candidate, you can gauge how effective your drug candidate is. |
| GUEST | To do that, they use a spectrophotometer, which shoots light through the sample at a detector on the other side. |
| SPEAKER: | If there are a lot of bacteria, most of that light is scattered in random directions and never reaches the detector. If there are very few bacteria, most of the light makes it through. |

It feels great, because I actually know what some of these things are. At the beginning I had no idea, so I was asking around the entire time. So l've learned something during three weeks.

## ANTHONY: 0.45.

GUEST The students plot the results on the white board and discuss whose penicillin is best.

## SPEAKER:

GUEST How are the results?

SPEAKER:

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ANTHONY: Did I win?
GUEST You tell me who wins.
SPEAKER:
GUEST I win!
SPEAKER:
GUEST Which is the best?
SPEAKER:
GUEST Yeah, Anthony's.
SPEAKER:
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## ANTHONY: Mine.

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GUEST Today is the students' last day in the lab. Tune in to the next episode to see how 5.301 wraps up.
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## SPEAKER:

GUEST Just imagine if you had a president that was a bachelor, or if you had a president with no kids. I think that we're

## SPEAKER:

GUEST Wait, was he?
SPEAKER:

GUEST Yeah, he was.
SPEAKER:

GUEST He didn't have a wife?
SPEAKER:

GUEST Nope.
SPEAKER:

GUEST Oh my god, I'm so stupid. I should definitely fact-check before I talk.

