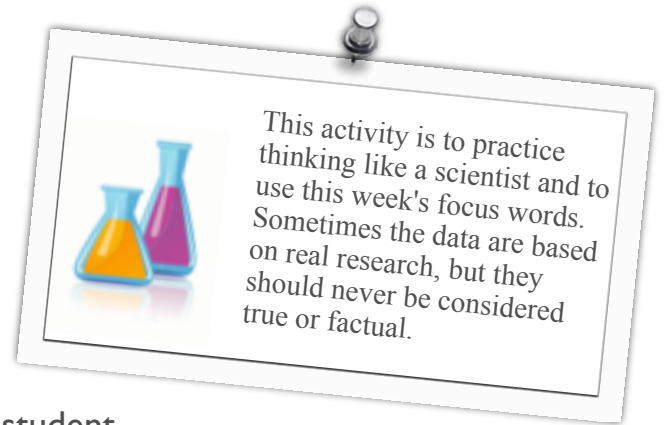


Unit 3.05

Should secret wiretapping be legal?

Science Activity



Professors Seemy and Kahn overheard their students talking about how hard it was to find time to study. One student said he wished that he could study while he slept. Professor Kahn began to wonder if people are capable of learning while sleeping. First, the professors tried to identify ways students could take in information while sleeping. Seemy and Kahn quickly **eliminated** books as a **source**, but considered DVDs and MP3 players. They decided to try MP3 players to see if students could learn a new language while they slept.

Question:

Can you learn by listening to a digital recording of a lesson on an MP3 player while you sleep?

Hypothesis:

You can learn some Russian by listening to a digital recording of a Russian lesson on an MP3 player while you sleep.

Materials:

- ▶ 60 students
- ▶ Digitally recorded Russian lesson (basic words: mother, father, sister, brother and numbers 0-10)
- ▶ Test of Russian vocabulary (same as those taught in lesson)

Procedure:

1. Administer all students a pre-test in Russian. Record results.
2. Teach all of the students the Russian vocabulary words.
3. Divide the students into 3 groups. The first group will not study at all. The second group will study the vocabulary words. The third group will only listen to the recording on an MP3 player while they sleep.
4. Administer students the same post-test the next morning.

Data:

	Average Score on Pre-test (out of 15 possible)	Average Score on Post-test (out of 15 possible)
Did not study	2	4
Studied	2	12
Listened to recording	2	10

Conclusion:

Is the hypothesis supported or not by the data?

What evidence supports your conclusion?

How would you make this a better experiment?