**Entomology in Action – Lesson 2: Investigating a Crime**

*You will follow the directions below and access listed resources to use your knowledge on forensic entomology to calculate the PMI for a crime victim. You will be able to compare your results with those from famed entomologist Dr. William Krinsky*

1. You are going to explore the work of a forensic entomologist Dr. William Krinsky. Learn about him and his work by reading: ["Jurors shown result of stabbing"](https://www.nlm.nih.gov/visibleproofs/education/entomology/ii_a_214.pdf) *(181KB, PDF)*.
2. Open [Dr. Krinsky's notes](https://www.nlm.nih.gov/visibleproofs/education/entomology/ii_a_211a.pdf) *(170KB, PDF)*, [Climatological Data](https://www.nlm.nih.gov/visibleproofs/education/entomology/ii_a_213a_b.pdf) *(PDF)*, the [Case Summary](https://www.nlm.nih.gov/visibleproofs/education/entomology/case_summary.pdf) *(66KB, PDF)*, and the [Entomology Case Worksheet](https://www.nlm.nih.gov/visibleproofs/education/entomology/ent_worksheet_10_12_grades.pdf) *(51KB, PDF)*.
3. With a partner read over and answer the questions on the [Entomology Case Worksheet](https://www.nlm.nih.gov/visibleproofs/education/entomology/ent_worksheet_10_12_grades.pdf)*(51KB, PDF)*.
4. When you have finished (in approx. 15 minutes) be prepared to share your answers to the worksheet questions.
5. Open the [ADH Worksheet](https://www.nlm.nih.gov/visibleproofs/education/entomology/adh_worksheet.pdf) *(76KB, PDF)*  read the first two questions.
6. Review the weather report from the [Climatological Data](https://www.nlm.nih.gov/visibleproofs/education/entomology/ii_a_213a_b.pdf) *(275KB, PDF)*handout to answer these two questions.
7. Review the accumulated degree hour—refer to Lesson 1 [Entomology Worksheet](https://www.nlm.nih.gov/visibleproofs/education/entomology/ent_worksheet_6_9_grades.pdf) *(72KB, PDF)*.
8. Have students read question 3 and Table 1 of the [ADH Worksheet](https://www.nlm.nih.gov/visibleproofs/education/entomology/adh_worksheet.pdf) *(76KB, PDF)* to review the calculation of the first 3 rows. Come up with the formula for calculating ADH for each date.
9. Complete Table 1 based on the your work.
10. Complete questions 4 and 5. You will present their findings at the end of the class including how you determined the answer to question 5.
11. Open and read [Dr. Krinsky's letter stating his findings](https://www.nlm.nih.gov/visibleproofs/education/entomology/ii_a_211b.pdf) *(159KB, PDF)* and conclusion. Dr. Krinsky used various entomological references and other factors in order to come to his conclusion on the estimated time of death.