 Time of death

When a dead body is discovered, it is important to determine the time of death. A pathologist will take the temperature of the body (normal temperature being $37℃$) as well as the air temperature at the location the body was discovered.

A formula used to predict the time of death is $t=-10ln\left(\frac{T-21}{16}\right)$, where t = time since death in hours and T is the current temperature of the body in degrees Celsius. This formula assumes the air temperature was $21℃$

Have students calculate the time of death given the time the body was found and its temperature at that time.