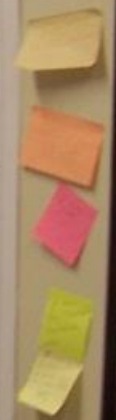


# Lyon

La Fête des Lumières, y visita al  
laboratorio de ensayo en nuevos  
materiales de construcción







Handwritten notes on a whiteboard, including a diagram of a sine wave and mathematical expressions:

$f(x) = A \sin(\omega t + \phi)$

$\omega = 2\pi f$

$f = \frac{1}{T}$

$\phi = \text{phase}$

$\omega = 2\pi \cdot 50 = 100\pi$

$f = 50 \text{ Hz}$

$T = \frac{1}{f} = \frac{1}{50} = 0.02 \text{ s}$

$\omega = 100\pi \text{ rad/s}$

$\phi = \frac{\pi}{4}$

$f(x) = A \sin(100\pi t + \frac{\pi}{4})$

Diagram of a sine wave with amplitude  $A$  and phase  $\phi$ .













GARE SAINT-PAUL

