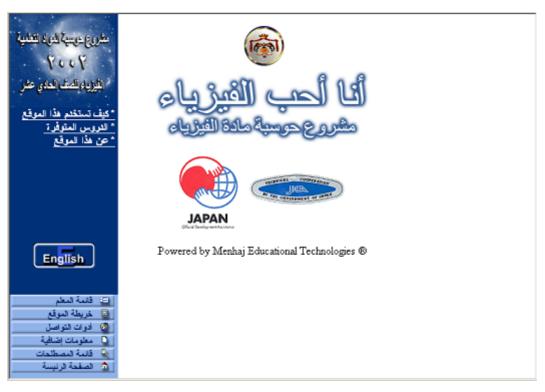


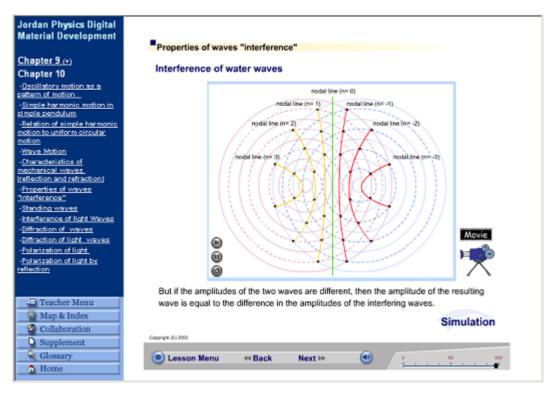
Top page (English version)



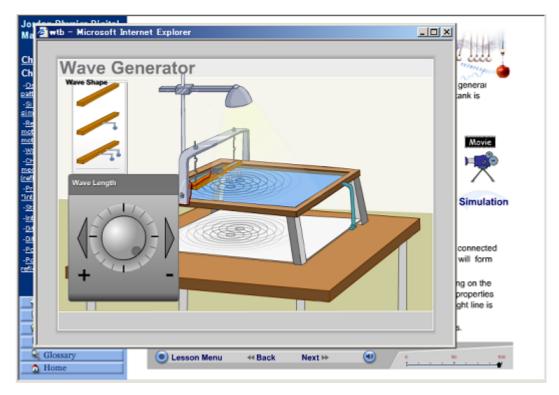
Top page (Arabic version)

Jordan Physics Digital Material Development Chapter 9 (+) Chapter 10 -Decillatory motion as a pattern of motion -Simple harmonic motion in simple pendulum -Relation of simple harmonic motion -Wave Motion -Characteristics of mechanical vaves (reflection and refraction)	Relation of simple harmonic motion to uniform circular motion The general formula for the displacement of an object moving in SHM 1. The vertical displacement (y) for avibrating body moved from the equilibrum can be represented by the following formula: y = A sin (∞ t)
Properties of waves Interference." Standing waves Interference of light Waves Diffraction of waves Diffraction of light waves Polarization of light Polarization of light by reflection	2. If the body starts moving from any point different from the point of equilibrium, the displacement (y) can be represented by th following formula: $y = A \sin(\omega_1 + \phi)$
Teacher Menu Map & Index Collaboration Supplement Glossary Home	where ∳ is the angle which defines the condition of waves begining. And this angle is called the phase constant (∞ + ∳) : phase angle.

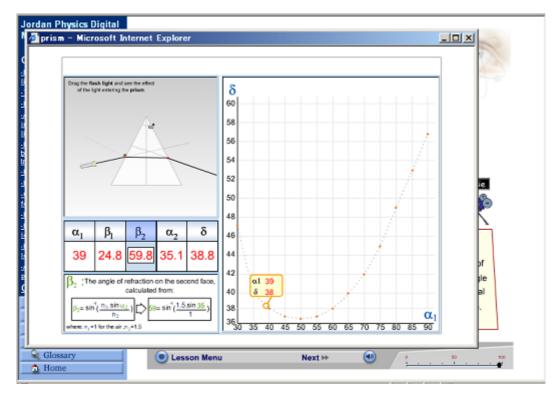
Explanation and Animation (1)



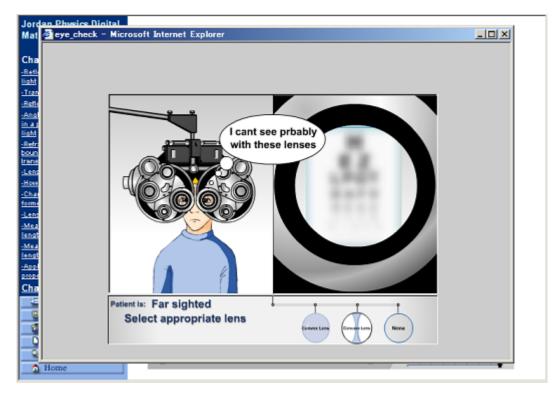
Explanation and Animation (2)



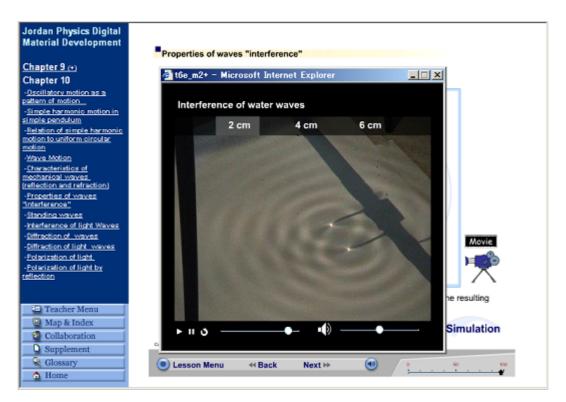
Simulation (Virtual Lab)



Simulation (Model)



Simulation (Game)



Movie