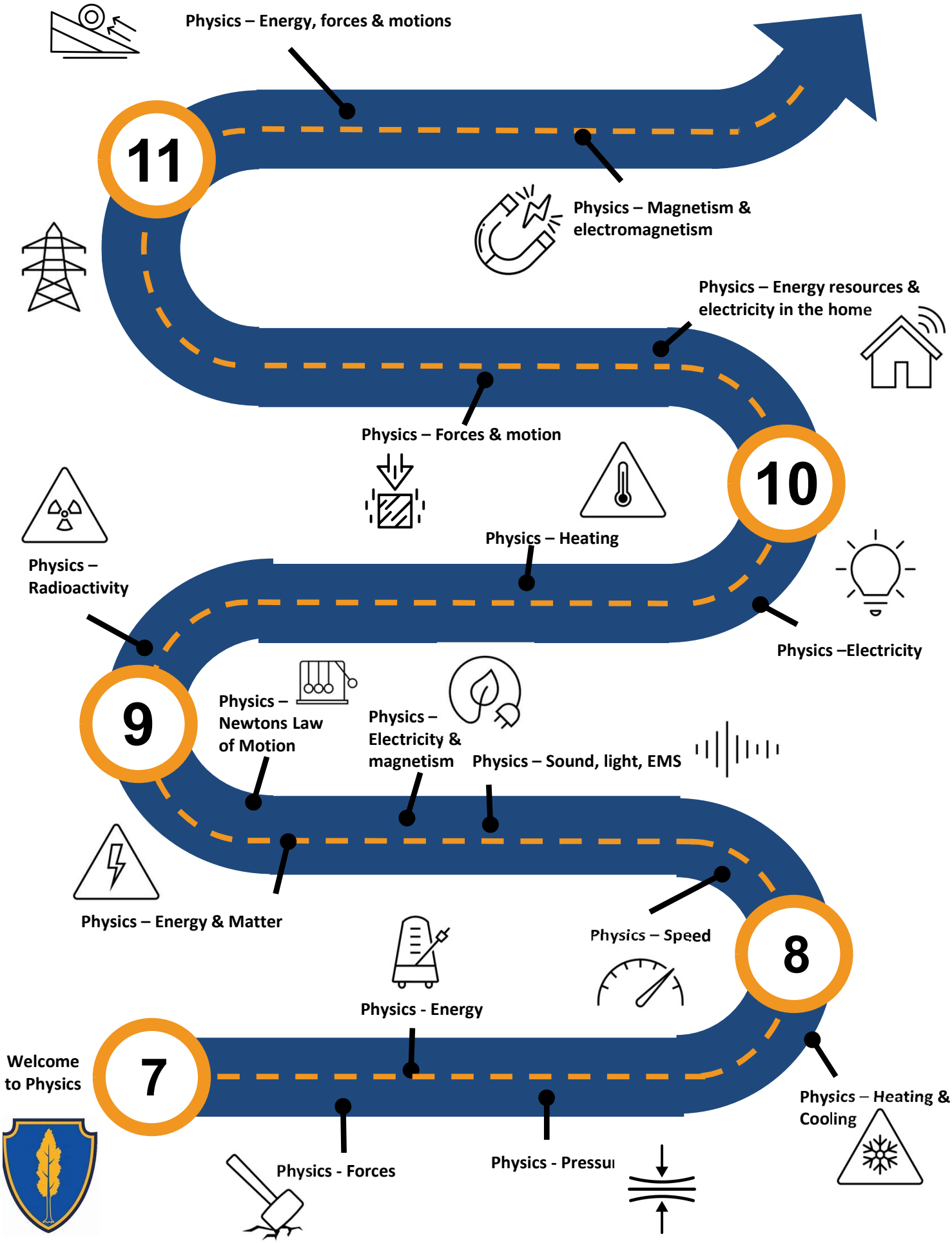Physics at MDSA