

**1.How bad would a person's injuries be if an elevator's cables snapped at the 100th floor so that the elevator fell to the bottom?**

**2.How does a microwave oven heat up food even though it emits no thermal radiation?**

**3.If I'm on an elevator that breaks loose and plummets down the shaft, can I avoid harm by jumping at the last second?**

**4.Why were electrons chosen to be negatively charged? Wouldn't it make more sense to call electrons positively charged because when they move they make electricity?**

**5.As light from a star spreads out and weakens, do gaps form between the photons?**

**6.Can momentum be hidden to human eyes like how kinetic energy can be hidden as heat?**

**7.Can you make a shock wave of light by breaking the light barrier just like supersonic airplanes break the sound barrier?**