Hawking's brief history of weightlessness Stephen Hawking, the British physicist and best-selling author who has spent his career pondering the nature of gravity from his wheelchair, is set to experience zero gravity on board a specially configured aircraft that travels a curving parabolic path **G-FORCE ONE:** Modified Boeing 727 **PARABOLIC** Dr. Hawking, 65, who has **MANOEUVRE** Lou Gehrig's disease, 9,750 will float freely during metres weightless periods. **ZERO-G** Medical team will closely monitor risk of injuries 8,550 and stress on metres cardiovascular 2. Free-fall: system 3. Pull up: Weightless 1. Nose-up: periods when When fall angle Plane accelerates plane reaches reaches 30 7,350 at 1.8 times gravity apex of curve degrees plane is Parabola metres and begins into steep climb of pulled back into repeated up 45 degrees to drop horizontal flight to 3 times 20 seconds 25 seconds 20 seconds © GRAPHIC NEWS Source: Zero Gravity Corp Picture: Associated Press