

# Bungee-Jumping Egg Worksheet

## Data Table

Unstretched elastic band length ( $UL$ )	
Mass ( $m_u$ )	
Total stretched elastic band length ( $x_T$ )	
Stretch distance of elastic band ( $x_u = x_T - UL$ )	
Calculated spring constant of elastic band ( $k$ )	
Mass of egg and basket ( $m_e$ )	
Egg basket length ( $BL$ )	
Platform height ( $PH$ )	
Separation distance ( $d$ )	
Total height of the jump ( $h$ )	
Calculated stretch distance of elastic band ( $X$ )	
String length ( $SL$ )	

## Calculations

Spring constant of elastic band:

Stretch distance of elastic band:

String length:

## Observations

Was the jump successful?

Sources of error.