

230mm

**MEASURE YOUR REACTION TIME!**

Seconds
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.06
0.04
0.02

1. Have someone hold this with your fingers lined up at the start ←, and drop it without warning you.

2. When you see the paper move, a nerve signal travels from your eye to your brain and then to your finger muscles. Your finger muscles move to catch the ruler.

**3. Measure:** The distance the reaction timer travels before you catch it has been converted to time in seconds using the equation  $D = \frac{1}{2} at^2$  where a is the acceleration due to gravity.

start here ←

SCIENCE WORLD BRITISH COLUMBIA

230mm

**MEASURE YOUR REACTION TIME!**

Seconds
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.06
0.04
0.02

1. Have someone hold this with your fingers lined up at the start ←, and drop it without warning you.

2. When you see the paper move, a nerve signal travels from your eye to your brain and then to your finger muscles. Your finger muscles move to catch the ruler.

**3. Measure:** The distance the reaction timer travels before you catch it has been converted to time in seconds using the equation  $D = \frac{1}{2} at^2$  where a is the acceleration due to gravity.

start here ←

SCIENCE WORLD BRITISH COLUMBIA

230mm

**MEASURE YOUR REACTION TIME!**

Seconds
0.20
0.19
0.18
0.17
0.16
0.15
0.14
0.13
0.12
0.11
0.10
0.09
0.08
0.06
0.04
0.02

1. Have someone hold this with your fingers lined up at the start ←, and drop it without warning you.

2. When you see the paper move, a nerve signal travels from your eye to your brain and then to your finger muscles. Your finger muscles move to catch the ruler.

**3. Measure:** The distance the reaction timer travels before you catch it has been converted to time in seconds using the equation  $D = \frac{1}{2} at^2$  where a is the acceleration due to gravity.

start here ←

SCIENCE WORLD BRITISH COLUMBIA