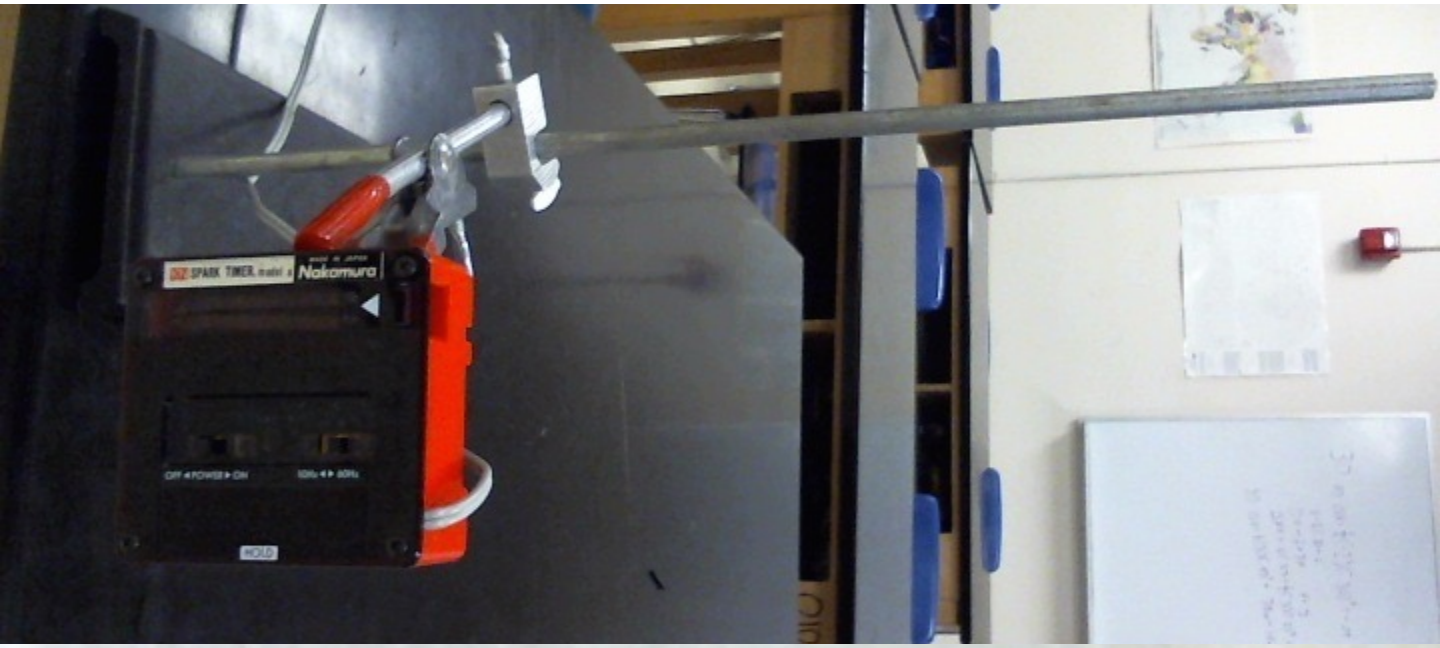
Freefall Lab

Using a Spark Timer


SPARK TIMER
Nakamura
HOLD

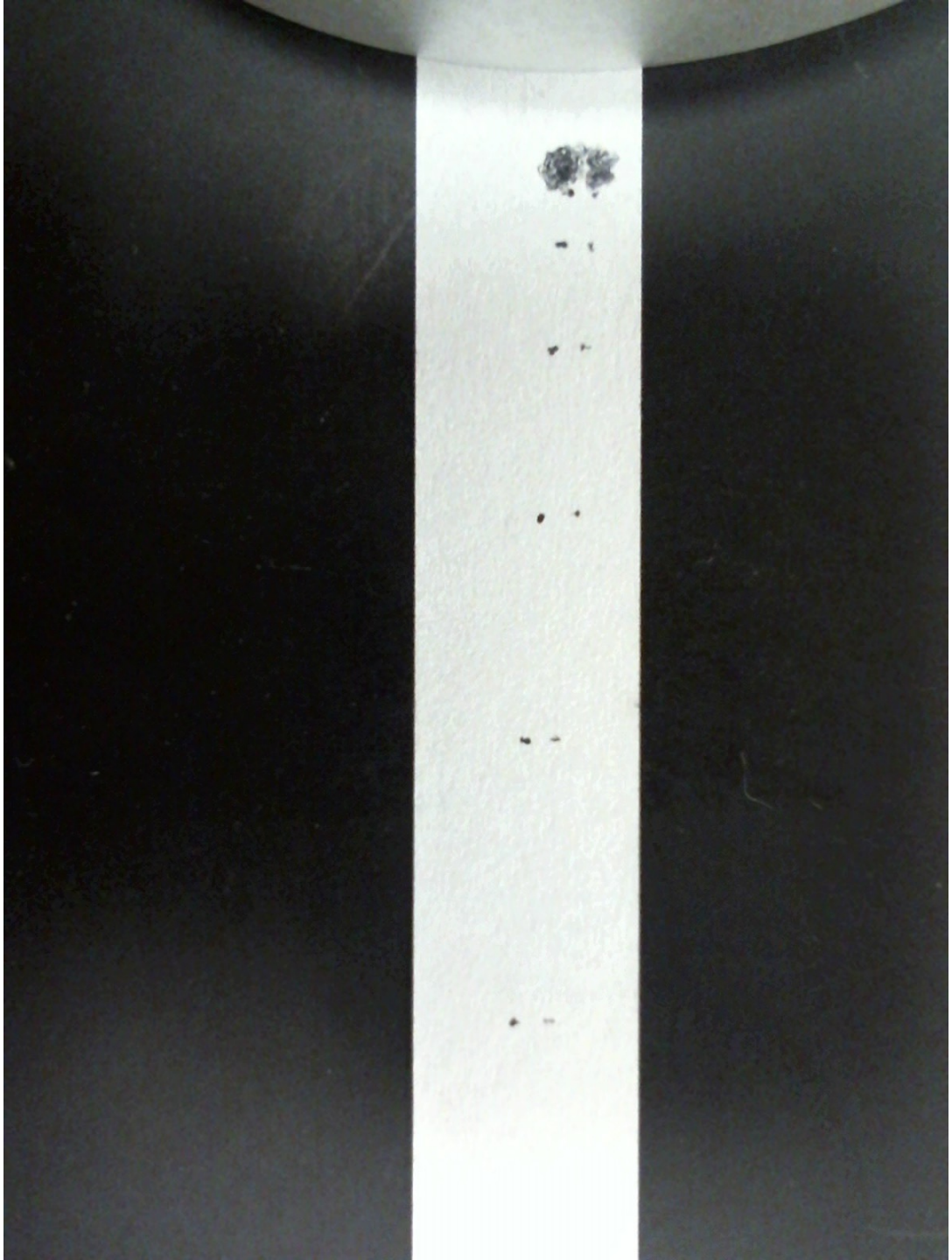

SPARK TIMER
Nakamura
OFF ◄ POWER ► ON
HOLD

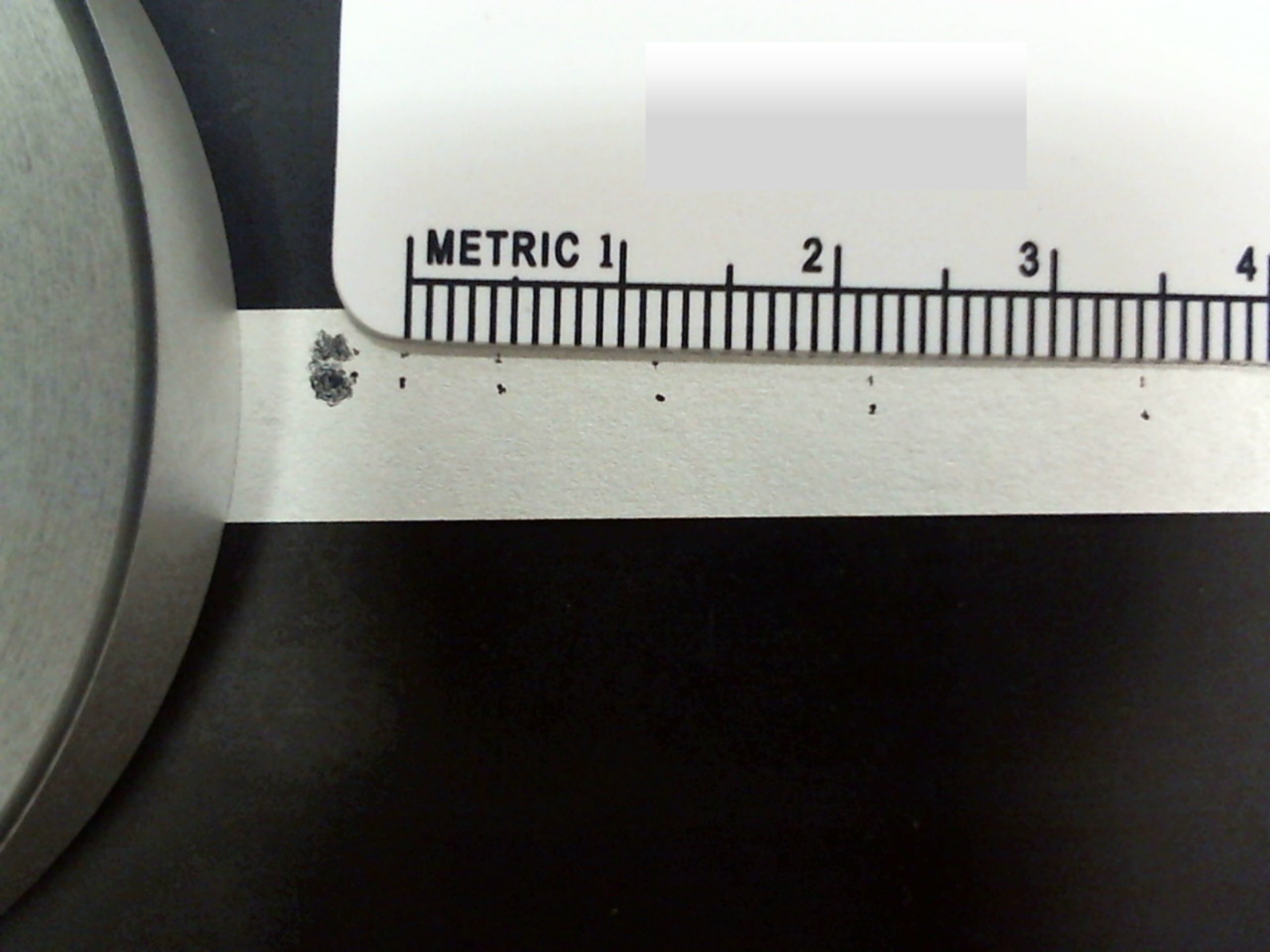

KN SPARK TIMER. model a
MADE IN JAPAN
Nakamura
Nakamura
OFF ◀ POWER ▶ ON
10Hz ◀ ▶ 60Hz
HOLD

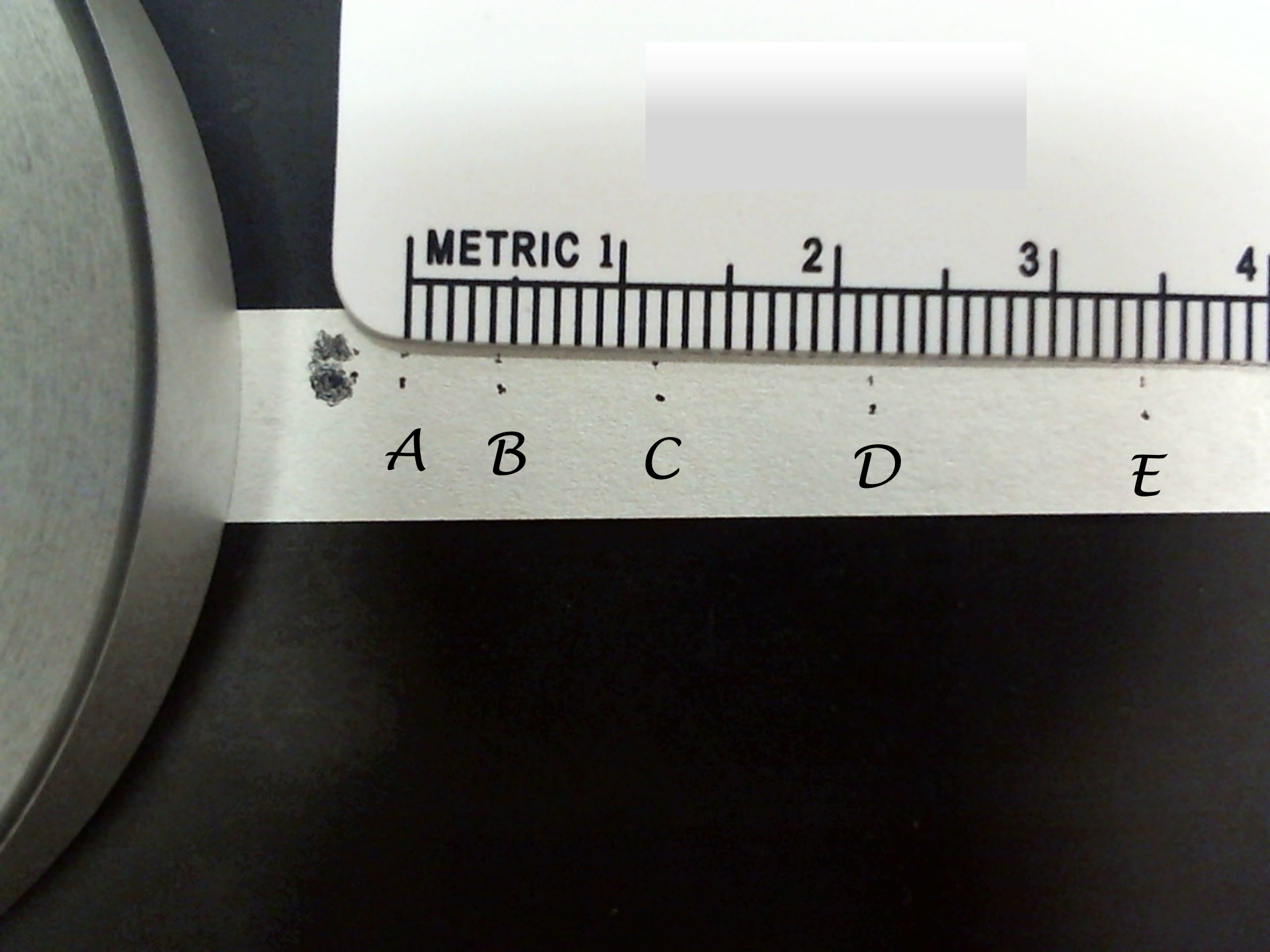
Freefalling test mass

Watch your toes!

Old book “landing pad”




METRIC 1
2
3
4


METRIC 1
2
3
4
A
B
C
D
E

Mass of object dropped:				Timer frequency setting:			
Point	t (s)	**r** (m)	**d** (m)	**v** (m/s)	**Δv** (m/s)	**a** (m/s^2)	dev(m/s^2)
A							
B							
C							
D							
E							
F							
G							
H							
I							
J							
			Mean Value for Acceleration:				
			Average Absolute Deviation for Acceleration:				

Measure "**r**" with a ruler, to the nearest 0.0001 m (0.01 cm) – all other columns are calculated!