

# SPRING BALANCE (SO SERIES)

Our newly introduced SO series of spring balances are exclusively designed for measuring force in units of Newtons. These stronger transparent spring balances contain a push-pull function and are versatile.

SPRING BALANCE, SO-2N NEWTON SCALE  
N99-A05-4053-01 \$35

SPRING BALANCE, SO-5N NEWTON SCALE  
N99-A05-4053-02 \$35

SPRING BALANCE, SO-10N NEWTON SCALE  
N99-A05-4053-03 \$35

SPRING BALANCE, SO-NG NEWTON/GRAM SCALE  
N99-A05-4054-01 \$35



### SPECIFICATIONS

All models are provided with a push bar  
Materials: Polycarbonate  
Dimensions: 35x260x20mm  
Scale Length: 120mm (with push bar)  
SO-NG indicator in both Newton and Gram  
Models: 2N, 5N, 10N, NG

### PHYSICS CONCEPTS

#### FRICITION FORCE:

- Measuring friction force between a wooden block and desk
- Put a wooden block on the desk and pull it horizontally with the spring balance. Read the indication to measure the friction force between the block and the desk. Measure how the results change when conditions change.



#### MOTION AND FORCE:

- Relationship between force applied to a substance and speed
- Pull the elastic cord such that the balance steadily indicates the same graduation, and check the intervals by which the tape records. Record the motion.



#### ACTION AND REACTION:

- Action and reaction force
- Push against the wall with your hands, and the wall pushes you back. Measure this force of reaction with an arrow mark.



#### TWO FORCES:

- Balance of two forces
- What is the relation between two forces acting on a single substance when it is "balanced?"

