

SEESAW SCIENCE

1. Tape your fulcrum (chalk) to the desktop so that it is secure.
2. Zero your meter stick by balancing the flat side of the meter stick on the fulcrum with the metric side up. The 1cm mark should be to the left of the fulcrum and the 100cm to the right. Record the center of your stick to the nearest tenth of a centimeter. _____ cm
3. Check that the pennies you use were minted after 1982.
4. Stack 4 pennies over the 20cm mark. All measures will be to the nearest tenth of a centimeter using the center of the penny.
5. Record the position of stacks of 5, 6, 7 and 8 pennies that balance the stick.

| | | | | |
|------------------------|---|---|---|---|
| Number of Pennies | 5 | 6 | 7 | 8 |
| Position of stack (cm) | | | | |

What is the independent variable? _____

What is the dependent variable? _____

What are two controlled variables? _____

6. Place one penny on the very end of the 100 cm side of the meter stick. Rebalance the meter stick and record the position of the fulcrum to the nearest tenth of a centimeter. Repeat using 2, 3 and 4 pennies and record the position of the fulcrum.

| | | | | |
|--------------------------|---|---|---|---|
| Number of Pennies | 1 | 2 | 3 | 4 |
| Position of fulcrum (cm) | | | | |

What is the independent variable? _____

What is the dependent variable? _____

What are two controlled variables? _____

8-11
 use wooden dowel / nut / chalk
 use pennies together

SEESAW SCIENCE

what is used for this

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Pairs
 96 pennies for 24 kids

| | | | | |
|------------------------|---|---|---|---|
| Number of Pennies | 5 | 6 | 7 | 8 |
| Position of stack (cm) | | | | |

What is the independent variable? # of pennies

What is the dependent variable? position of stack

What are two controlled variables? pennies minted after 1982, measurement meter stick

6. Place one penny on the very end of the 100cm side of the meter stick. Rebalance the meter stick and record the position of the fulcrum to the nearest tenth of a centimeter. Repeat using 2, 3 and 4 pennies and record the position of the fulcrum.

| | | | | |
|--------------------------|---|---|---|---|
| Number of Pennies | 1 | 2 | 3 | 4 |
| Position of fulcrum (cm) | | | | |

What is the independent variable? # pennies

What is the dependent variable? position of fulcrum

What are two controlled variables? pennies, meterstick