Unit IV: Balancing and Weighing

Content Area: **Science**
Course(s): **Science 3**
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Enduring Understandings

The structures of materials determine their use.

On a beam, balance is dependent on the relative mass of objects, the location of the fulcrum, and the relative lengths of the arms of the beam.

Various tools can be used to measure, describe and compare different objects.

There is a relationship between balancing and weighing.

Essential Questions

How do the properties of material determine their use?

How do you know something is balanced?

How are balancing and weighing related?

Content

Additional Resources

Mobile Maker
Create a mobile that balances!
National Gallery of Art for Kids
Interactive Make Mobile Online

Make Your Own Butterfly Mobile
Create something beautiful!

Make a Jan Brett Mobile
Made with many of the characters of Jan Brett books..

Many Mobile Ideas
from Enchanted Learning

Vocabulary

Balance

Mobile

Equal-arm

Data graphs

Bar graphs

Histograms

Weight

Evaluate

Pose

Refine

Investigations

Models

Venn diagrams

Fulcrum

Skills

Perform simple experiments with balance.

Discover how the amount of weight, the position of weight and the position of the fulcrum affect balance.

Apply previous experiences with balancing to build mobiles.

Use an equal-arm balance to compare and weigh.

Predict the serial order for the weights of objects and foods.

Apply strategies for comparing and weighing to solve problems.

Record results on data graphs, bar graphs, histogram, and Venn Diagrams.

Communicate ideas, observations, and experiences through writing, drawing, and discussion.

Appreciate the importance of balancing and weighing by extending reading.

Develop an interest in balancing and weighing.

Accept that a range of results is valid.