Balance
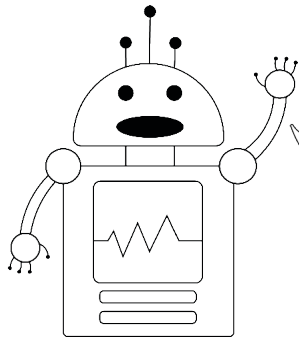
This activity was created by Robyn.

When we are building structures, it is important to recognize that balance affects stability.

Every object has a weight and a density; the way the weight is distributed in an object, or living thing is different and affects their balance.
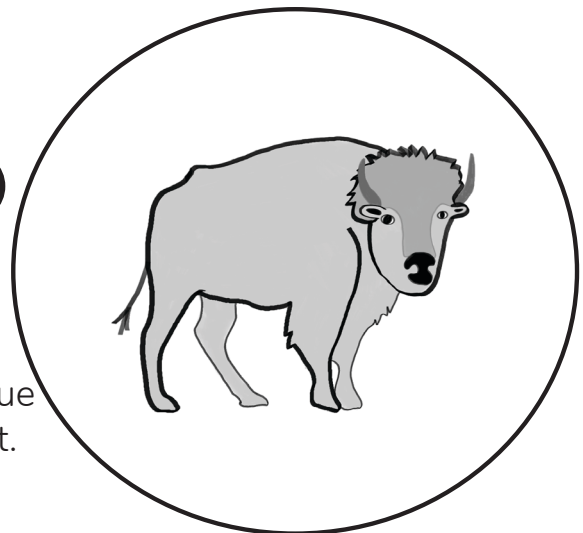
Did you know that in coding true is represented as ~1~ and false as ~0~?

Here's an example of two different objects that equal the same weights.
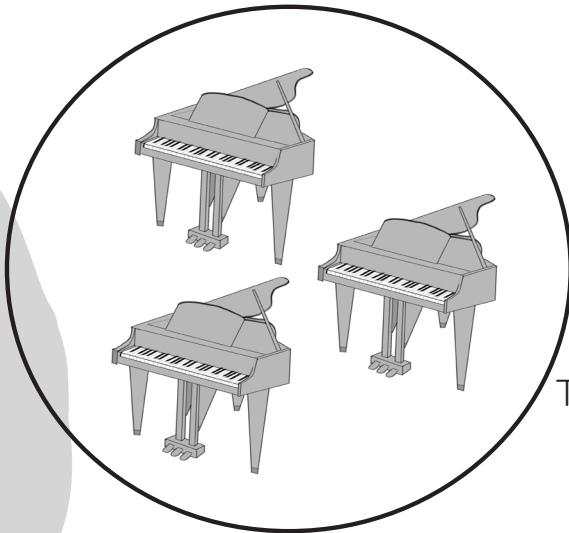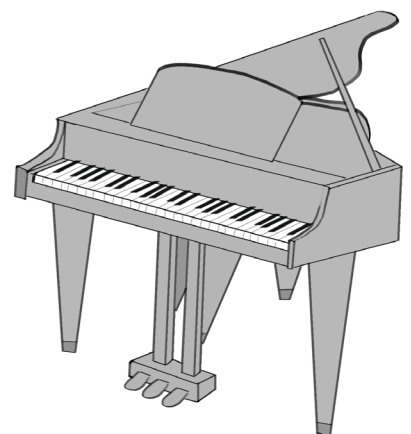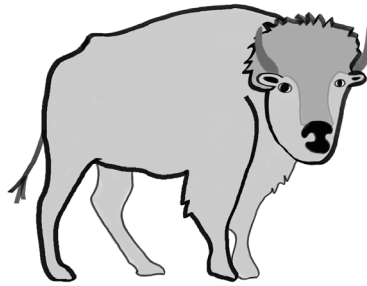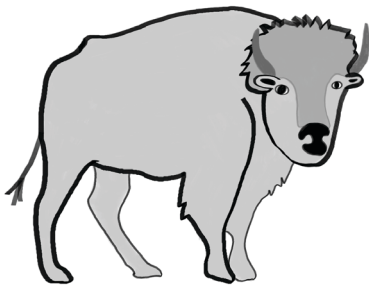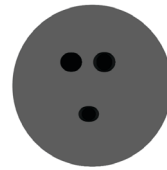
~1~

=

This is a true statement.

~1~

3 Pianos = 1 Bison
10 Humans = 1 Piano
12 Bowling balls = 1 Human

~1~

5 Humans ≠ 1 Bison
2 Pianos ≠ 5 Humans
1 Computer ≠ 1 Bowling ball

Try making a balance at home! Here are some ideas:
- Use a hard cover book and a can of soup
- Use a long flat piece of wood and a tennis ball
- Check out your local park and see if they have a teeter-totter; it's a big balance!

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WISE Kid·Netic Energy
ENGINEERING FUN SCIENCE

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Date: _____   Name: _____

Let's practice balance!

Cut out the object on page 11 and place them onto the balances below to make them true. For the scales to be true, you will need to make the first balance have equal weights and for the second have weights that are not equal.