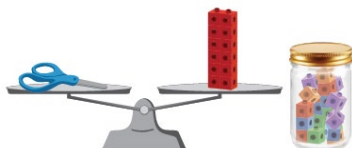


Activity 15 Assessment

Measuring Mass

Using Standard Units to Estimate and Measure Mass and Capacity

Uses non-standard units to measure



"The scissors have a mass of about 12 linking cubes. The jar has a capacity of about 20 linking cubes."

Uses multiple copies of standard-sized items to measure

"I added 1-g masses to the pan until the pans balanced. The eraser has a mass of 20 g.

I filled the 100-mL cylinder and poured it into the jug. I did this 6 times. The capacity of the jug is 600 mL."

Measures using intermediary object (e.g., object whose mass/capacity is known)

"I know the soup can has a mass of about 300 g, so I started with that and added other masses.

I used the water bottle to fill the bowl. It didn't quite fill it, so I then used the 100-mL cylinder."

Observations/Documentation

Activity 15 Assessment

Measuring Mass

Using Standard Units to Estimate and Measure Mass and Capacity (con't)

Uses benchmarks to estimate in standard units

"My pencil case is a bit heavier than a can of tuna, so I estimate 225 g.

The bottle is a bit smaller than a carton of milk, so I estimate 900 mL."

Selects and uses appropriate standard units

"It's lighter than a box of salt, so I will use grams.

It's bigger than a milk carton, so I will use litres."

Compares using standard units

"1 L is more than 750 mL, so the milk carton holds more than the yogurt tub."

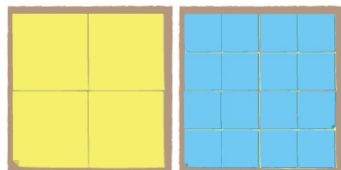
Observations/Documentation

Activity 15 Assessment

Measuring Mass

Relationships in Area, Mass, and Capacity

Measures using different non-standard units for area, mass, and capacity



"I covered the shape with big squares, then with small squares."

Uses the relationship between non-standard units to explain measures

"The bigger the cube, the fewer I needed to fill the milk carton."

The smaller the square, the more I needed to cover the shape."

Uses conservation of area and mass to predict measures



"I reshaped the modelling clay and its mass didn't change. It was 375 g both times."

Flexibly uses the relationships among measurement units

"375 g is less than 1 kg because 1 kg is 1000 g."

Observations/Documentation