## Vocabulary: Surface and Lateral Areas of Prisms and Cylinders

## Vocabulary

- Cylinder - a three-dimensional figure with two congruent, circular bases in parallel planes and a curved lateral surface.
- The lateral surface connects the two bases.
- A cylinder that is straight up and down (the bases sit directly above one another) is right.
- A cylinder that is skewed (tilted to one side) is oblique.
- Height (of a cylinder or prism) - the perpendicular distance between the two planes in which the bases lie.


Right cylinder


- Lateral area - the sum of areas of the lateral surfaces of a three-dimensional figure.
- $\quad$ Net - a two-dimensional pattern of a three-dimensional figure that can be folded to form the figure.
- Prism - a three-dimensional figure with two congruent, polygonal bases in parallel planes and other faces that are parallelograms.
- The bases of a prism determine its type.
- For example, the figure to the right with rectangles for bases is a rectangular prism, and the one with triangles for bases is a triangular prism.
- A prism that is straight up and down (the bases sit directly above one another) is right.
- A prism that is skewed (tilted to one side) is oblique.
- A prism with six congruent square faces is a cube.
- The parallelograms that connect the bases are


Right rectangular prism


Oblique triangular prism lateral faces.

- Surface area - the sum of areas of all faces and curved surfaces of a three-dimensional figure.

