

# Microscopes

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- the microscope is used by scientists to observe very small unicellular and multicellular living things

- Early microscopes were built in the late 1600's

- Leeuwenhook was 1 of the 1st to build a microscope

- he could magnify up to 250x

## Compound Light Microscope

- has 2 sets of lenses that magnify an image

$$\text{Eyepiece} + \text{Objective lenses} = \text{total magnification}$$

LOW POWER  $10x \times 4x = 40x$  ←

MEDIUM POWER  $10x \times 10x = 100x$  ←

HIGH POWER  $10x \times 40x = 400x$  ←

## Carrying and Handling a Microscope Safety

- 1 Carry with both hands
  - ↳ 1 hand under the base
  - ↳ 1 hand holding the arm
- 2 Remove slides and clean lens with lens paper
- 3 Clean and wrap cord around the arm and place cover over it

## Resolving POWER

Figure 1.11 (pg 14)

The ability to distinguish between 2 dots or objects very close together

pg 15 Reading Check

# 1, 2, 4, 5

