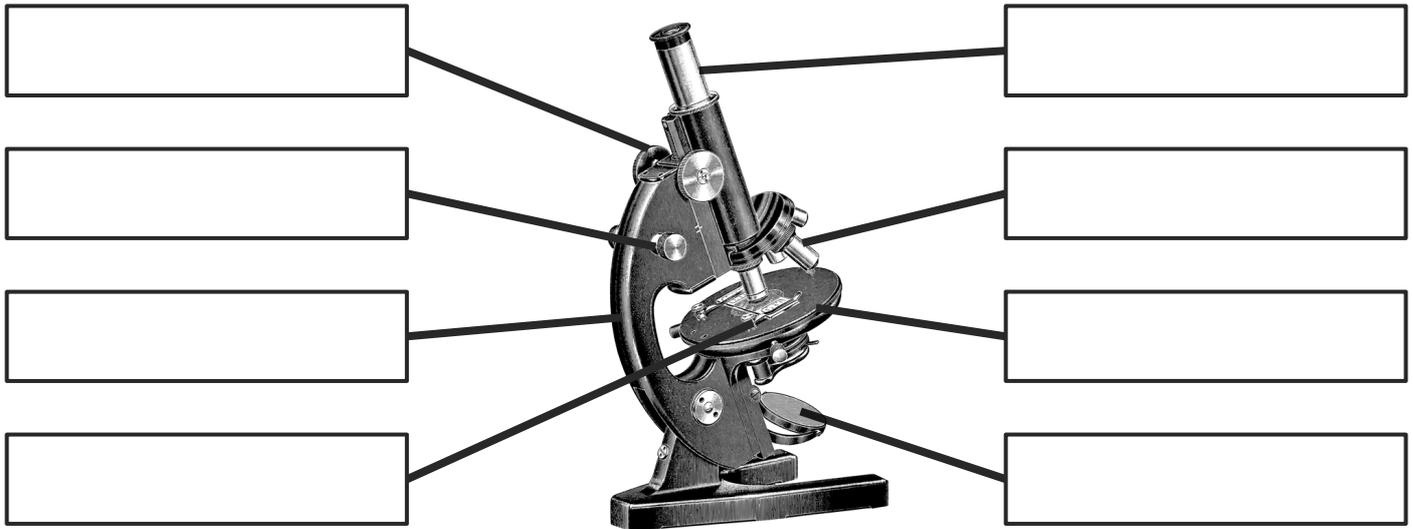


Microscopes



Task 1: Labelling the parts of a microscope

Label the photograph of a microscope using the key terms below.



coarse lens
light source

fine focus
stage clips

stage
arm

eyepiece lens
objective lenses

Task 2: Describing how to use a microscope

a) The method for using a microscope has been mixed up. **Number** the steps to put the method into the correct order. One and two have been done for you.

1	Place the slide on the stage.
2	Adjust the light source if necessary.
	Move the stage clips down to hold the slide in place.
	Turn the focus wheels to make the image clear.
	Look down the eyepiece.
	Rotate the objective lenses to select the one with the lowest magnification.

b) **Name** the type of image produced when using a microscope.

Name _____



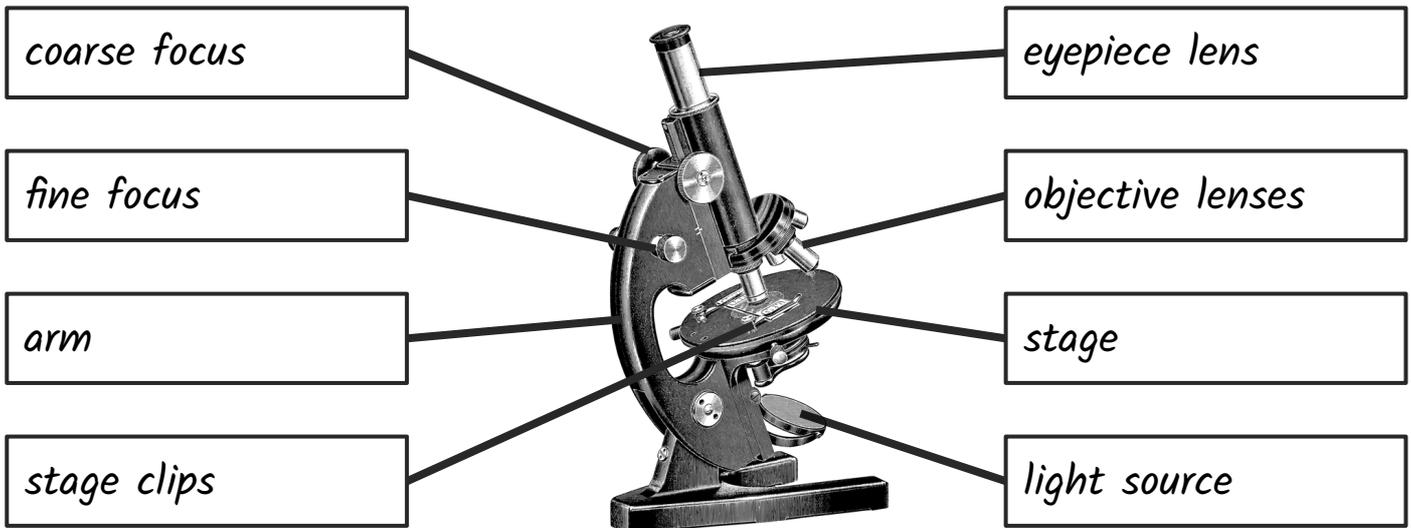
Task 3: Calculating magnification

- a) **Which** two values are multiplied together to calculate the total magnification of a microscope?
- b) **Describe** where the magnification values can be found on the microscope.
- c) **Calculate** the total magnification power of a microscope with an eyepiece magnification of $\times 10$ and an objective lens magnification of $\times 20$.



Task 1: Labelling the parts of a microscope

Label the photograph of a microscope using the key terms below.



coarse lens
light source

fine focus
stage clips

stage
arm

eyepiece lens
objective lenses

Task 2: Describing how to use a microscope

a) The method for using a microscope has been mixed up. **Number** the steps to put the method into the correct order. One and two have been done for you.

1	Place the slide on the stage.
2	Adjust the light source if necessary.
3	Move the stage clips down to hold the slide in place.
6	Turn the focus wheels to make the image clear.
5	Look down the eyepiece.
4	Rotate the objective lenses to select the one with the lowest magnification.

b) **Name** the type of image produced when using a microscope.

a micrograph



Task 3: Calculating magnification

a) **Which** two values are multiplied together to calculate the total magnification of a microscope?

eyepiece lens magnification and objective lens magnification

b) **Describe** where the magnification values can be found on the microscope.

The values are written on the eyepiece and the objective lenses.

c) **Calculate** the total magnification power of a microscope with an eyepiece magnification of x10 and an objective lens magnification of x20.

X 200