

BIOLOGY

MAGNIFICATION AND RESOLUTION

	Magnification	Resolution
Light Microscopy	Up to 1500X	200 nm
Electron Microscopy	SEM up to 100,000X	0.1 nm
	TEM up to 500,000X	

SIZE OF OBJECTS

Smallest insect (*Dicopomorpha echmepterygis*) **139 – 240 µm**

Largest bacterium (*Epulopiscium fishelsoni*) **0.7 mm**

Smallest bacterium (*Mycoplasma genitalium*) **200 – 300 nm**

Smallest virus (*Porcine circovirus*) **17 nm**

Red blood cell **6 – 8 µm**

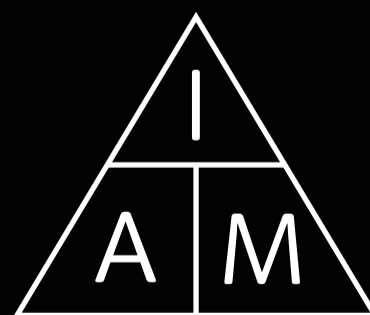
Nucleus c. **6 µm**

Membrane width **7.5 – 10 nm**

Smallest alga (*Micromonas pusilla*) **1 - 3 µm**

OUR COURSES

- BSc Biological Science
- BSc Marine Biology
- BSc Marine Biology and Oceanography
- BSc Marine Biology and Coastal Ecology
- BSc Ocean Science and Marine Conservation
- BSc Zoology
- BSc Conservation Biology
- BSc Animal Behaviour and Welfare



A = ACTUAL SIZE
I = IMAGE SIZE
M = MAGNIFICATION



Magnification can also be calculated by multiplying the magnification of the eyepiece by the magnification of the objective lens (e.g. 10X x 100X = 1000X)