

Biology with Tainlab

Some of the Biology activities possible with Tainlab...

- Show how animals can reduce heat loss by huddling together.
- Measure heart rate, breathing rate of students before and after exercise
- Compare the rate of reaction of pancreatin on milk powder solution at various temperatures using the colourimeter.
- Show the effect of different temperatures on the reaction of starch and amylase.
- Record energy generated by seeds during germination.
- Determine the heat produced as yeast respire under aerobic and anaerobic conditions.
- Monitor the pH of a milk/yoghurt solution during fermentation.
- Study the relationship between water temperature and oxygen solubility.
- Monitor the progress of osmosis using a pressure sensor.
- Insulation: measure the insulating properties of various materials.
- Compare skin temperatures of several students.
- Monitor oxygen usage by live material in a stoppered test tube by measuring the reduction of gas pressure in the tube.
- Determine cooling rates for different sized bodies ("Adult and Child").
- Investigate the effect of sterilisation on the microbiological breakdown of freshly cut grass.
- Observe the growth of a broth culture of bacteria by measuring turbidity.
- Examine the photosynthetic activity of an aquatic plant by measuring the temperature, pH and dissolved oxygen (optional).
- Control an incubator using the output control facility of the TecMaster interface ("Hatching Chickens").
- Compare the energy required to maintain body temperature under various conditions ("Homeostasis").



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Tools for Biology

Tainlab

Simple & versatile data-gathering systems



pH probe and amplifier
Cat. No. CB103 **\$180**



Colourimeter
Cat. No. CB101 **\$235***



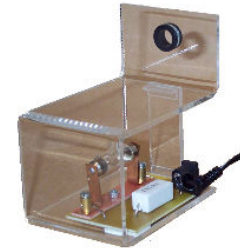
Pressure Sensor
Cat. No. CB108 **\$160***



Wide Range Light Sensor
Cat. No. LS101 **\$75***



Dissolved Oxygen Electrode and adaptor
Cat. No. CB104 **\$396***



Beaker Stand with Light Source
Cat. No. CB111 **\$38***



Heart Rate Monitor
Cat. No. CB106 **\$90***



Receiver for Chest Band Heart Rate Monitor (Polar)
Cat. No. CB112 **\$100***
(does not include chestband)



Breathing Rate Monitor
Cat. No. CB107 **\$75***



Sealed Temperature Probe (-10° to 110° C)
Cat. No. TS102 **\$30***



Skin and Body Temperature Sensor (20° to 40° C)
Cat. No. TS103 **\$20***



Position Sensor (used with gas syringe)
Cat. No. CB109 **\$44***

* Note: Prices do not include GST



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