

# MICROSCALE BIOLOGY

Microscale assays to support learning and teaching across the Biology curriculum in Scotland.

## Activity



1

### Microscale Catalase

Investigating the effect of hydrogen peroxide concentration on catalase activity.



2

### Microscale Dopa Oxidase

Investigating the effect of inhibitors on a biological reaction.



3

### Microscale Titration

Investigating the relative vitamin C content of different fruit juices.



4

### Microscale Amylase

Investigating the effect of enzyme concentration on amylase activity.



# Activity

**5**

## **Microscale Fermentation**

Investigating the effect of enzyme concentration on amylase activity.

**6**

## **Microscale Standard Curve - Glucose concentration**

Investigating the concentration of glucose in solutions.

**7**

## **Microscale Phosphorylase**

Investigating phosphorylase activity - a synthesis reaction on a microscale.

**8**

## **Microscale Immunoassay**

This microscale activity could be used to simulate various immunoassays, including a pregnancy test.