SCIENCE SESSIONS

In association with:

CARDIFF UNIVERSITY

WILLMOTT DIXON
SINCE 1852

Name:

School:

What does a scientist look like?

Draw a scientist:

Handwashing experiment

Results:

Normal Soap	Cardiff University Super Soap

Quiz:

1. What is bias?

2. What is a fair test?

Nerve conduction experiment

Results:

Hand squeeze transition time:

Experiment	Time/s
1st	
2nd	
3rd	

$$\text{AVERAGE} = \frac{1^{st} \text{ time} + 2^{nd} \text{ time} + 3^{rd} \text{ time}}{3}$$

Average transmission time

Distance hand squeeze signal travelled:

Measure, record and add up all the arm spans from the line
s

Total distance signal travelled:
m

Nerve conduction experiment

Results:

NERVE CONDUCTION SPEED = <u>Distance travelled</u> time

Nerve transmission speed =
m/s

Quiz:

1. Why do we calculate averages?

2. What do we mean by "source of error"?

Reaction time experiment

Results:

Experiment	Time/s
1st	
2nd	
3rd	

AVERAGE = $\dfrac{\text{1st time + 2nd time + 3rd time}}{3}$

Average reaction time
s

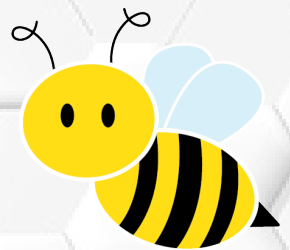My reaction was: (circle answer)

Excellent   Above Average   Average   Below Average

Quiz:

1. What is the scientific name for a nerve cell?

2. Name two things that can affect reaction time:

SCIENCE SESSIONS

Honeycomb engineering activity

Draw how your 'honey cells' started off

Draw how your 'honey cells' look when squashed

Honeycomb engineering activity

Quiz:

1. What does tessellate mean?

2. What shape are honeycomb cells before they form hexagons?

3. Why do the honeycomb cells become hexagon shaped?
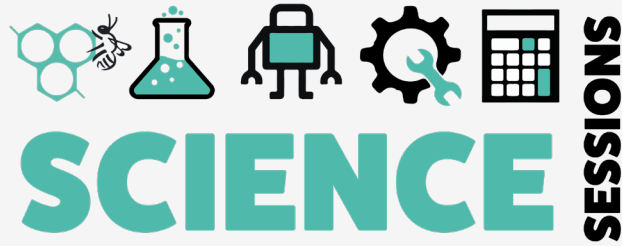
Microbiology experiment

Draw a plan of your swabbing sites:

Microbiology experiment

Quiz:

1. What do we grow bacteria in/on for testing?

2. What are antibiotics used for?

3. Why do we need new antibiotics?

Level 2: COMPLETE
Get your stamp below!

SCIENCE SESSIONS

University visit

Notes:

University visit

Notes:

Ask one of the scientists a question. Write down your question below and the answer the scientist gives you.

My question was:

The scientist's answer was:

What does a scientist look like?

Draw a scientist:

Level 3: COMPLETE
Get your stamp below!

SCIENCE SESSIONS