Candidate evidence

5 Analysis

Example 1

| Concentration of Hydrogen Peroxide (%) | Volum | ie of fro | Average volume of froth (cm)3 | | | |
|--|-----------|-----------|-------------------------------------|-----------|------------|-----------|
| E- 03 ha | Attempt 1 | Attempt 2 | Attempt 3 | Attempt 4 | 0 | |
| | 12 | 15 | 6 | 3 | 12 | |
| 2 | 16 | 16 | 12 | 9 | 13 | |
| 3 | 22 | 21 | 29 | 18 | 23 | |
| 4 | 40 | 24 | 27 | 25 | 29 | |
| 5 | 55 | 43 | 48 | 52 | 50 | |
| The Average | s, have | been rou | nded up | to the n | earest who | de number |

| Percentage of Hydrogen | | Average volume of gas collected (cm ³) after(secs) | | | | | | | | | | | |
|---------------------------|------|--|------|------|------|------|------|------|------|------|------|------|----------|
| peroxide | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 3 10 |
| 100 | 48.3 | 68.7 | 78.3 | 82.0 | 85.0 | 86.7 | 87.0 | 87.3 | 87.7 | 88.3 | 88.3 | 88.3 | Mr. |
| 90 | 37.3 | | | | | 72.3 | 73.0 | 73.3 | 73.3 | 73.3 | 73.3 | 73.3 | 40 |
| 80 | 32.3 | | | | | | | | 63.7 | | | 63.7 | |
| 70 | | 40.0 | 45.7 | 48.3 | 49.0 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | 49.3 | |
| 60 | 20.7 | 31.7 | 36.7 | 40.0 | 42.7 | 44.0 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | 44.7 | |
| 50 | 16.3 | 27.0 | 31.0 | 33.3 | 35.3 | 36.3 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | 37.0 | |
| 6/6/ 200/ | | | | | | | | | | | | | rsework- |

In my table, the hydrogen peroxide concentration increased from 1% to 5%, the average volume of froth increased from 9cm³ to 50cm³. An increase in volume of froth means an increase in enzyme activity. In the data, the results are similar but a different range of hydrogen peroxide is used going from 50% to 100%. When collected for 30 seconds, in this case was an increase in average volume of oxygen gas, which means in this experiment an increase in enzyme activity.

Example 2

| Ain | | | | | | | | |
|-----|--------|--------|-----------|--------|------|---------|----------|-------------|
| To | invest | igate | the | effect | œ | differe | ent Copy | per Nitrale |
| Sou | veccao | inhihi | a sustant | the | rate | ot | enzyme | activity. |

| | No. | Lifered 5 | tomp 15 | aculaciones. | بالزو | 4 |
|------------------|-----------|-----------|---------|--------------|--------|---------|
| concentration of | Time | Taken Fr | Boods | To Quie | Sers) | - |
| nhihitar (M) | expl | exp2 | e*p 3 | exp 4 | exp 5 | Average |
| or time in | sed a | 2003 | agab s | andr arth | ned | eA |
| 0 M | 3.9 | 3.4 | 3.5 | 3.3 | 3.3 | 3.5 |
| 313d. 47d. 30 | condes | incurso | | 20 000 | 100 m | co . |
| 0.1M | 16.1 | 14.9 | 16.2 | 17 . Is well | 17.8 | 16.4 |
| 631,552 -56 | 10 May 42 | 42 5.8 | Law | 1 200 | 10 600 | of as |
| 0.0 IM | 10.4 | 8.9 | 8.7 | 9.0 | 9.2 | 9.2 |
| | | | | | | |

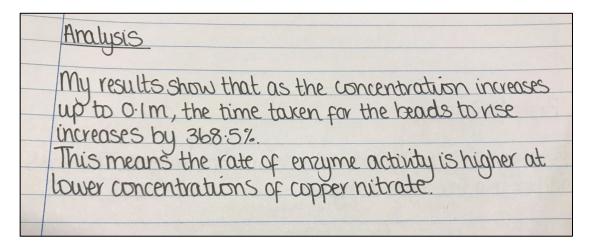
Example 2 - analysis (a)

Analysis

My results show that as the concentrations increase from 0 to 0.1m, the time taken for the beads to rise increases by 369%.

This means the rate of enzyme activity is higher at lower concentrations of copper nitrate.

Example 2 – Analysis (b)



Example 2 – Analysis (c)

Analysis

My results show that as the concentration increases from 0 to 0.1, the time taken for the beads to rise increases by 369%.