# **Candidate evidence**

#### 7 Evaluation

#### **Example 1**

· Throughout the experiment the temperature may have
bleach acted As terminan him a tastan that and effect
Jenzamue activity. This may have had an impact
con the amount of town produced, making we
enzyme activity, this your have had an impact on the amount, of pan produced, making my results less reliable.
If I were to repeat the experiment I would use
If were to repeat the experiment I would use a water beath to ensure the temperature stays
constant throughout.
Covortion of the state of the s

# Example 2

I could have found a second source of data which repeated the experiment to increase reliability of the results. As temperature affects enzyme activity I could have ensured that the temperature was kept the same. I could have done this by using water baths with a specific temperature. I believe that the results from my experiment where reliable as both mass of grams lost in both experiments where fairly similar. Repeating my experiment twice also increased the reliability of the results I gained.

## Example 3

	Evaluation:
a empl/lites	i could have made my data more reliable by making the substrate comentration higher. This is due to me not allowing to see the initial reaction rate. My data shans the enzyme reaction rate.
	Increasing however it does not show it at it's feets reaction rate. I could also have put the measuring cylinders in a waterboath, as enzyme reaction is affected by temperature. The temperature of the room was not controlled this I could have found a grouph with numbers. This would allow menta see that the companison of their data, on the same substrate concentration:

## Example 4

Evaluation

We could have improved mis experiment by accurately measuring me site of each piece of wer in each boung tribe, rather man simply culting each piece about me same. Also, we could of accurately measured out me detergent, rather man 2 drops in each as most mere is no evidence only a went into each bouring. Tube: hastry, we should have measured boung tube temperature as they were all at room temperature—next time, make sure all are me same temperature by putting in a 30°c water bath. This would make the overall experiment more reliable.

#### **Example 5**

giving us more valid results. To make sure we had the correct concentration of catalase on the filter paper disc we could have timed how long each disc soaked in the tube to show that it had the same concentration of catalase. If done, there would have been made the results obtained more reliable. To increase reliability of the results to a further extent we could have washed the tweezers between each use to make sure no cross contamination occurred between the different concentrations throughout the experiment.