Change detectives

Level 3 outcomes checklist

Teacher:	Class:

Level 3 unit outcomes **c:** conceptual outcomes **i:** investigating outcomes **Student**	**c** Explain that changes of state involve physical changes.	**c** Explain that physical changes do not produce new substances.	**c** Explain that chemical changes produce new substances and consume the original substances.	**c** Identify physical and chemical changes.	**c** Identify reversible and irreversible changes.	**i** Formulate a question for investigation and make a prediction.	**i** Plan investigations showing an awareness of the need for fair testing.	**i** Record results as a table and plot results as a column graph.	**i** Make and record observations, and identify patterns in results.

Key: *B = Beginning; D = Developing; A = Achieving*

Change detectives

Level 4 outcomes checklist

Teacher:	Class:

Level 4 unit outcomes **c:** conceptual outcomes **i:** investigating outcomes **Student**	**c** Explain that physical changes involve changes in the movement and spacing of particles of a substance.	**c** Explain that substances produced by chemical changes have different properties from those used in the reaction.	**c** Explain the importance of classification for identifying differences and similarities between things.	**i** Plan investigations involving a control, and repeat trials or replicates.	**i** Plot results from an investigation as a line graph.	**i** Analyse and explain patterns in results from an investigation.	**i** Make suggestions for improving the investigation.

Key: *B = Beginning; D = Developing; A = Achieving*