



Lab Notebook



Index of Investigations, Challenges and Activities

Mix and Flow of Matter

Investigations	Activity	Title	Page Ref.
QuickLAB		Foam in a Cup	91
1.0 Matter can be described and organized by its physical and chemical properties.			
Skill Practice		Safety in the Science Lab	93
QuickLAB		Organizing the Properties of Matter	97
QuickLAB		Observing a Physical Change	98
Inquiry	B-1	Identifying Mystery Substances	100-101
Skill Practice		Identifying Physical and Chemical Changes	105
Inquiry	B-2	Investigating Physical and Chemical Changes	106-107
2.0 An Understanding of the nature of matter has developed through observations over time.			
Give It A Try		Creating a Time Line Story of Matter	113
QuickLAB		Meet the Elements	122
Skill Practice		Using the Periodic Table	129
Inquiry	B-3	Building A Periodic Table	130-131
Skill Practice		Exploring Patterns in the Periodic Table	133
3.0 Compounds form according to a set of rules			
Skill Practice		Make A Model of an Atom	139
QuickLAB		Common Chemicals in Your Home	140
Skill Practice		Working with Compounds	142
QuickLAB		Using Batteries to Investigate a Chemical Reaction	145
Inquiry	B-4	Modelling Ionic Compounds	148
QuickLAB		Ionic or Molecular Compound?	150
Inquiry	B-5	Modelling Molecular Compounds	151
4.0 Substances undergo a chemical change when they interact to produce different substances.			
QuickLAB		Rocket Science	157
Give It A Try		Identify The Reaction	158
Inquiry	B-6	Observing Chemical Reactions	159
Experiment on your Own	B-7	Reactions for Upset Stomachs	161
Inquiry	B-8	Conserving Mass	164
QuickLAB		Hydrogen Peroxide & the Catalyst Mang. Dioxide	167
Inquiry	B-9	Rates of Reaction	168
Science World			
Case Study Issue		Metal Contamination of the Environment	173
Project			
End of Unit Project		What's In The Bottle?	174