Table of Contents

Exercise 1 **Weather Watchers** ..... Page 1
An introduction to temperature, relative humidity and clouds

Exercise 2 **Don't Be Clueless** ..... Page 3
An introduction to identify the signs that animals have been present

Exercise 3 **Tree Stumps and Beavers** ..... Page 5
Comparing tree stumps cut by humans and beavers

Exercise 4 **Pondering Ponds** ..... Page 7
Part 1 Quiet Observation
Part 2 Temperature and Relative Humidity
Part 3 Chemical Analysis of oxygen and pH
Part 4 Pond Life

Exercise 5 **Slippery Slopes** ..... Page 9
Determine the slope of a hill

Exercise 6 **Rocky Roads** ..... Page 11
Rock identification

Exercise 7 **Water, Water Everywhere** ..... Page 13
Calculating the speed of the river and the importance of the river.

Exercise 8 **Powerful Triangles** ..... Page 15
Using triangles to find the distance across a river

Exercise 9 **Ducks Unlimited... Or Maybe Not** ..... Page 17
Bird Identification and observation

Exercise 10 **Acre Makers** ..... Page 19
Part 1 Outlining the size of an acre
Part 2 Tree ring dating
Part 3 Density of trees

Exercise 11 **Moving Electrons** ..... Page 21
Advantages and disadvantages of the use of electricity

Exercise 12 **Soiled Soils** ..... Page 23
Part 1 Soil analysis and comparison
Part 2 Soil porosity

Exercise 13 **Time Out** ..... Page 25
Discussing changes in the land with change in time

Exercise 14 **Gentle Giants** ..... Page 27
Part 1 Identifying the functions of a tree
Part 2 Photosynthesis
Part 3 Carbon dioxide and oxygen cycles

Exercise 15 **Measuring Gentle Giants** ..... Page 29
Determining the height of a tree

Exercise 16 **Animal Tracks** ..... Page 31
Making plaster casts and identification of animal tracks

Exercise 17 **Old, But Not Worthless** ..... Page 33
Identify the usefulness of a dead tree

Exercise 18 **Who's Eating Whom** ..... Page 35
Identifying food chains and food webs

Appendix
Relative Humidity Chart ..... Page 37
Wind Chill Chart ..... Page 38
Heat Index Chart ..... Page 39
Cloud Chart ..... Page 40
Animal Track Chart ..... Page 41
Plant identification Chart ..... Page 42
Pond Life Chart ..... Page 43
Bird Identification Chart ..... Page 44