

Science Skills Ladder

Pathfinders 1

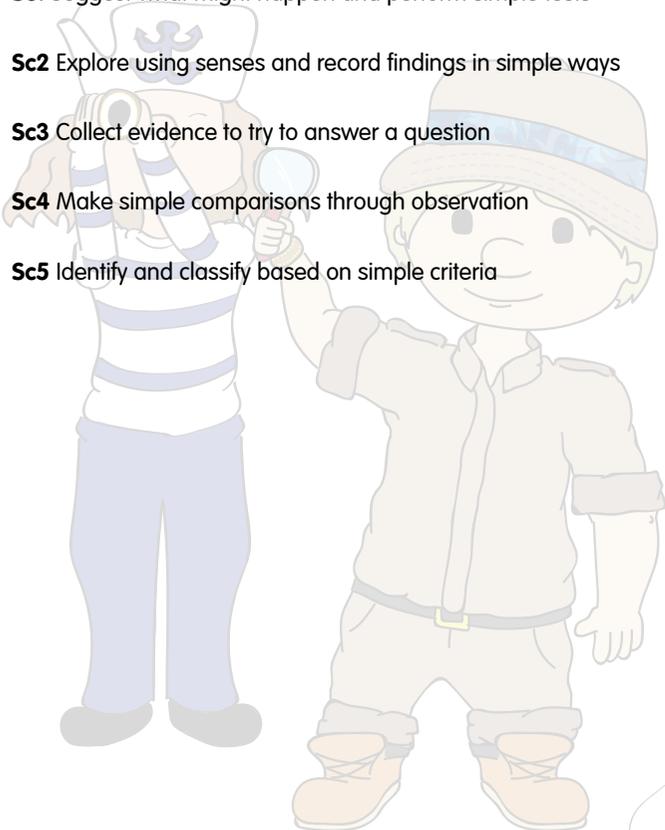
Sc1 Suggest what might happen and perform simple tests

Sc2 Explore using senses and record findings in simple ways

Sc3 Collect evidence to try to answer a question

Sc4 Make simple comparisons through observation

Sc5 Identify and classify based on simple criteria



Pathfinders 2

Sc6 Explore and observe in order to collect data and describe and compare findings

Sc7 With help, suggest some ideas and questions and predict what might happen

Sc8 Use first-hand observation, own experience and simple information sources to make comparisons and answer questions

Sc9 Observe closely using simple equipment

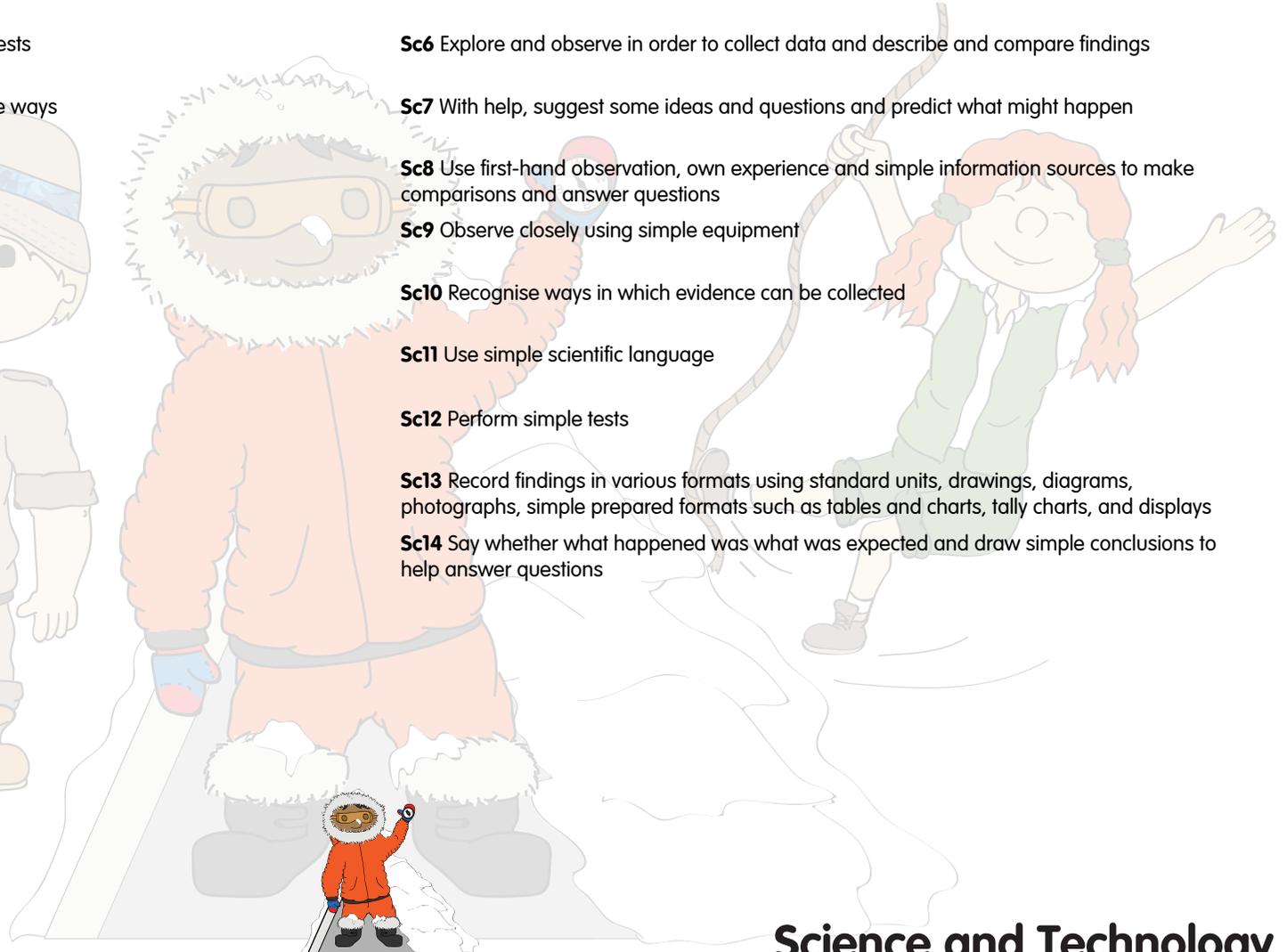
Sc10 Recognise ways in which evidence can be collected

Sc11 Use simple scientific language

Sc12 Perform simple tests

Sc13 Record findings in various formats using standard units, drawings, diagrams, photographs, simple prepared formats such as tables and charts, tally charts, and displays

Sc14 Say whether what happened was what was expected and draw simple conclusions to help answer questions



Science Skills Ladder

Adventurers 1

Sc15 Ask relevant questions

Sc16 With help, set up and carry out simple practical enquiries, comparative and fair tests

Sc17 Suggest what might happen in comparative and fair tests

Sc18 Make careful observations and comparisons

Sc19 Recognise what constitutes a fair test

Sc20 Identify simple patterns, changes, similarities and differences

Sc21 Make measurements using standard units

Sc22 Discuss and describe findings

Sc23 Communicate findings using simple scientific language in written explanations, drawings, labelled diagrams, keys, bar charts or tables

Sc24 Use results to draw simple conclusions

Adventurers 2

Sc25 Set up and carry out simple practical enquiries, comparative and fair tests

Sc26 Put forward ideas about testing and make predictions

Sc27 Make close observations and comparisons

Sc28 Observe patterns and suggest explanations

Sc29 Collect data

Sc30 Recognise and explain why a test is fair or unfair

Sc31 Identify simple trends to answer questions

Sc32 Make accurate measurements using standard units and begin to think about why measurements should be repeated

Sc33 Use scientific evidence to answer questions

Sc34 Use a range of equipment, including data loggers and thermometers

Sc35 Gather and record findings through drawings, photographs, labelled diagrams, keys, models, presentations, tables, graphs and displays, using scientific language

Sc36 Report on what the evidence shows through written explanations of results and conclusions and reports

Sc37 Use results to draw simple conclusions, suggest improvements and raise further questions

Science Skills Ladder

Navigators 1

- Sc38** Plan different types of scientific investigations
- Sc39** Make predictions based on scientific knowledge
- Sc40** Carry out a range of scientific investigations
- Sc41** Begin to recognise and control variables where appropriate during investigations
- Sc42** Identify trends and patterns and offer explanations for these
- Sc43** Carry out a fair test explaining why it is fair
- Sc44** Take measurements using a range of scientific equipment with increasing accuracy and precision
- Sc45** Understand why observations and measurements need to be repeated
- Sc46** Select information from provided sources
- Sc47** Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs
- Sc48** Produce written explanations of results, causal explanations and conclusions
- Sc49** Use results to make predictions for further tests

Navigators 2

- Sc50** Select and plan the most appropriate type of scientific enquiry to answer specific questions
- Sc51** Make predictions based on scientific knowledge and understanding
- Sc52** Carry out a range of scientific investigations
- Sc53** Recognise and control variables where appropriate during investigations
- Sc54** Identify scientific evidence that has been used to support or refute ideas
- Sc55** Take measurements using a range of scientific equipment with accuracy and precision
- Sc56** Decide when observations and measurements need to be checked, by repeating, to give more reliable data
- Sc57** Select information from a range of sources
- Sc58** Record data and results of increasing complexity, using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models, making appropriate use of ICT
- Sc59** Reporting findings from investigations, including written explanations of results, explanation involving causal relationships, and conclusions
- Sc60** Present reports of findings in written form, displays and presentations
- Sc61** Use test results to make predictions and set up further comparative and fair tests