



# SCOUT PATROL CHALLENGES

**ADVENTURE  
PLUS!**



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### Patrol Challenges

These challenges are for a patrol of between 4 and 8 scouts.

Your 'patrol' can be made up from any combination of scouts in your troop/ friends / scouts from other troops.

The best way to achieve any challenge is with scouts/friends who are interested in the challenge.

Why not have part of your scout night where the 'Challenge' patrols get together and work on their specific challenge. Your PLC could help by offering a choice of Patrol Challenges during each term and give the scouts the option of which one they would like to be part of.

Whichever Patrol Challenge you choose, remember that there could be parts of the challenge which can be credited to parts of the Award Scheme or parts of Personal Challenges.

The badges for the Patrol Challenges are awarded after your Patrol Leaders Council (PLC) and the Scout Leaders have approved your achievement. The Challenge Patrol Leader is awarded the red badge and the rest of the patrol, the yellow badge. The Patrol Leader for the challenge may not necessarily be a Patrol Leader in the Troop, but could be the most skilled person in that particular challenge, showing leadership and support for the patrol during the challenge.

### Getting started

Have a look through the Patrol Challenges and decide which challenge/s you would like to take part in.

Ask everyone in your Troop Patrol, and in the other Troop Patrols, and your friends to join with you in the challenge to make up a patrol.

Now, hold a Patrol Council for the Challenge Patrol, (that's a meeting of your patrol) and get everyone to agree on working together as a patrol.

Decide, as a patrol, who will be the Challenge Patrol Leader.

Now, read through the requirements of the challenge, listen to all the ideas and encourage every member of the patrol to have a say, record all those great ideas, give everyone in the patrol a job to do and check that they understand what they need to do, set dates for when these jobs should be completed and when you should meet again as a Patrol to go over your arrangements, and then get out there and get into your challenge.

### Your choice of Patrol Challenges are:

Adventure	Aeronautical	Agriculture
Citizenship	Construction	Crafts
Cultural Awareness	Ecology	Entertainment
Journalism	Literature	Local History
Master Camper	Nautical	Observation
Scout Friendship	Service	Technology
World Conservation		

Remember – your Challenge Patrol is not necessarily your Troop Patrol. Just find some other scouts/friends interested in the same challenge and get out there and be challenged!

## Scout Patrol Challenges

# Adventure

As a Challenge Patrol, complete ONE of the challenges in Section A and complete Sections B, C and D.



- A As a Patrol organise and complete an adventure trail based on ONE of the following alternatives:
1. By public transport, go to another town at least 50 km from your Scout Hall. Arrange to stay at least one night with local scouts.
  2. By the Scouts' own transport (e.g. cycle, horse, kayak) travel to an overnight campsite, stay there and return the next day – a distance of at least 20 km.
- B Your patrol should decide on TWO adventurous activities from the following suggested list. The activities should form the basis of a days outing for each one selected.  
Jet boating, skiing, water skiing, surf casting, ice skating, ballroom dancing, gliding, horse riding, archery, visiting caves, shearing, milking.  
Other choices may be approved by you PLC and Scout Leaders.
- C As a patrol, investigate in depth, one of the adventurous activities selected in B, noting such details as records of achievements and people who have made an outstanding contribution to the activity.
- D Present a report back to your Troop covering your adventure trail (A), your TWO adventurous activities, and your investigations.  
Your presentation could be designed as a wall chart to encourage other scouts to complete this challenge.

To help with your planning start by listing some ideas of places you would like to visit and what adventurous activities you would like to try

Places I would like to visit	Adventurous activities I would like to try

# Aeronautical

*As a Challenge Patrol, organise and complete the following challenges. These activities are to be under the supervision of an Aero Club or Gliding Instructor or the holder of an Aeronautical Charge Certificate.*



1. Know the Phonetic alphabet and its purpose.
2. Understand the runway numbering system and basic aerodrome traffic systems.
3. Demonstrate knowledge of the safety procedures to be followed when on an airfield.
4. Inspect an aircraft parking area, remove any foreign objects and be aware of other dangers.
5. Organise and undertake a pre-flight check of an aircraft or glider, include a cockpit safety inspection.
6. Either assist with refuelling and the adding of oil to an aircraft engine, and carry out a fuel/water check OR help with the rigging and derigging of a glider.
7. Assist with marshalling, moving and picketing of an aircraft or glider, including the placement of pickets.
8. Demonstrate the following knots: eye splice, back splice, rolling hitch, round turn and two half hitches.
9. Clean and wash an aircraft or glider.
10. As a patrol, build and fly a propeller driven model OR individually, build a model chuck glider and as a patrol run a model glider competition for your troop.
11. Undertake a flight in an aircraft, glider or helicopter.

Keep a log of your Aeronautical activities, including photos, so you can make a presentation to the rest of your Troop, and/or your Group.

What about organising a Troop night, and inviting the senior Cubs as a link activity, to take part in the model glider competition.

Great opportunity to teach them the splices and hitches at the same time.

# Agriculture

*As a Challenge Patrol, complete section 1 and ONE of the challenges from section 2.*



1. Either: - as a Patrol, interview a Field Officer or Farm Adviser from the Ministry of Agriculture and Forestry - MAF (now merged with the Ministry of Fisheries MFish) and report to the Troop verbally about his/her responsibilities, qualifications, tasks, etc.,  
OR - as a Patrol find out what services MAF makes available to farmers and horticulturists and what role it plays in the prevention and control of animal and plant diseases.
2. As a Patrol, take up ONE of the following challenges which should be carried out over a period of one term. A log book containing charts, drawings or photographs should be kept. At the end of the term, a report should be made to the Troop.
  - (a) Contact a bee-keeper and study the lifestyle of the bee. Know about seasonal changes in the hive, also swarming, hiving, and hive construction. Look into the marketing of honey.
  - (b) As a Patrol care for an animal/bird each. Know its breeding habits, the feeding and care, housing, exercising and training. If a farm animal is chosen, its economic use should be looked at, plus how to handle the animal. Also find out about vaccination, and common diseases.
  - (c) As a Patrol, make an enquiry into farming practices within your locality. Know the farm organisation, land use, seasonal operations generally, machinery and the main products obtained from the area.
  - (d) As a Patrol cultivate an area of 5 square metres and grow six types of vegetables or six kinds of flowers from seeds or cuttings. Keep a record and time log of the progress of the plants, maintain a record of fertilisers used, pests, diseases encountered and the measures taken to control them. Show a knowledge of any precautions necessary when handling materials used.

To help with your planning, here are some examples of vegetables and flowers you might like to grow.

**Vegetables:** carrots, beetroot, silver beet, radishes, potatoes, kumara, dwarf beans, sugar snap peas, onions, celery, parsnip, garlic, sweet corn, strawberries.

**Flowers:** Swan Plant to attract monarch butterflies, Anemones, African violet, antirrhinum (snapdragons), spring bulbs like daffodils and freesias, pansies, sunflowers (have a Patrol competition to grow the tallest)...

Or try some **herbs:** thyme, sage, borage, rosemary...

# Citizenship

*As a Challenge Patrol, complete all of the sections for this challenge. Your Scout Leader should be able to help you find a suitable person to whom the Patrol can report their findings and answer appropriate questions.*



1. As a Patrol, trace the development of the New Zealand flag since 1837 with diagrams and charts. Make a report to the Troop.
2. As a Patrol, find out how the New Zealand Parliament works, including the functions of the House of Representatives, the role of the Speaker of the House, Party Whips and the current voting system.
3. As a Patrol visit a Justice of the Peace and discuss their appointment, responsibilities and concerns.
4. In your Patrol, select TWO of the following and arrange an interview to find out their role in society, or the community and report verbally to the Troop. You should wear your uniform for these visits.
5. Magistrate, Bailiff, Public Relations Officer, Child Welfare Officer, Acclimatization Society Officer or Park Ranger, Civil Defence Officer, Youth Aid Officer of New Zealand Police, Aged Persons, Welfare Council Representative, or any other agencies or relevant persons after discussion with your PLC and Scout Leader.
6. Your Patrol should make an investigation of the District or City Council within which the Scout Group operates. Find out and report on the responsibilities, functions and organisation of the Council. Your report should include diagrams, charts or similar explanatory aids.

Check out your Silver Scout Award / Community / Our World/Our Country

To help with your planning, list here some people you know, who you could approach to interview about their role in society.

## Scout Patrol Challenges

# Construction

*With your Challenge Patrol, become skilled in the use of the lashings and associated skills from section 1, then construct and use in an appropriate setting, any THREE of section 2.*



1. Become skilled in the use of the following:

- Square lashing
- Diagonal Lashing
- Japanese lashing
- Filipino lashing
- Sheer lashing
- 3 – 2- 1 holdfast
- Reeving a tackle

Associated skills such as care of ropes, coiling, storing, checking for fray, whipping, and splicing should also be known.

The Challenge Patrol Leader is responsible for checking ropes for safety before undertaking the chosen activities.

Before any activity below is undertaken, the patrol should complete section 1.

2. Construct and use in an appropriate setting any THREE of the following:

- A means of crossing water at least 10m wide. The construction should be at least one metre above the surface of the water at its lowest point.
- A freestanding platform for getting the whole patrol at least 2.5 metres above ground level.
- An item of playground equipment that works – invite some guests to use it. (Ideal activity to link with cubs)
- A shower unit for continuous use in camp that allows for privacy.
- A means to convey the whole patrol on water a distance of at least 200m in one direction. Check the water safety regulations and check with your local Water Activities or qualified Sea Scout Leader.
- A waterproof shelter to enable the whole patrol to spend a night in reasonable comfort.
- An example of rope weave such as a flagpole or gateway to be used at a camp.

Which THREE would you like to have some fun with?

Keep practising those lashings!



# Crafts

*As a Challenge Patrol, each scout should undertake instruction and participation in the craft activity of about ten weeks or one term. You should aim to have the instruction organised before the start of the term.*



**A** Either

As a Patrol, select a new craft and undertake a course of instruction in that craft with the aim of each scout producing a completed item.

OR

Each member of the Patrol should select a craft of their own choice, arrange a course of instruction and carry it through with the aim of producing a completed item.

Suitable crafts could be: Batik, pottery, water sketching, stone carving, wood carving, screen printing, raku work, weaving, wool dyeing and spinning, oil painting.

**B** Having completed their chosen craft / activity, the Patrol should prepare a display for the Troop which, in addition to their work, has examples of other work in the same or similar crafts.

This should be accompanied by a talk by the Patrol about the history, development, methods etc. of the crafts they have chosen.

List some crafts you would like to try.

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## Scout Patrol Challenges

# Cultural

*As a Challenge Patrol, complete any FIVE (5) of the following challenges.*



1. Demonstrate your Patrol's knowledge of the following terms: cultural, multicultural, whanau, whakamaa, fakaalofa, human rights, samsara, umukai, Polynesian, racism, anthropology, non-verbal communication.
2. Arrange a visit to a local community leader and discuss their responsibilities as a leader.
3. Arrange for an instructor to work with your Patrol on a form of cultural artwork e.g. Maori carving, batik, rock drawings (Could be done in conjunction with the Crafts Patrol Challenge)
4. Explain to your PLC and Scout Leader the history, way of life, dress and customs of a Pacific Island selected by your Patrol.
5. Arrange a meeting with a person from another country to discuss the customs of that country with your Patrol. Relay what you have discovered to your Troop.
6. Demonstrate your knowledge of the Treaty of Waitangi. Your presentation should include its origin, who participated, where it was signed, and its general implications in New Zealand life today. Come up with a fun (but respectful) way of demonstrating this to enthuse your Troop.
7. Prepare and serve a four course meal for the Scout Leaders (invite your Zone Scout Leader). The courses are to be from four different cultures e.g.
  - (1) Kumara Soup & Maori bread, chicken chow mein, Danish strudel, Turkish tea with Turkish Delight
  - (2) Pawpaw, Malayan beef satay, Crepes, Chinese teaAdd some more ideas of food from other cultures.
8. Learn three games foreign to New Zealanders and teach them to your Troop. Check also Bronze Scout Award/Community/Our World/Our Country.
9. Host a visitor from a different culture at your Troop night.
10. Explain what a citizen from another country must do to become a New Zealand citizen.

# Ecology

As a Challenge Patrol, satisfactorily complete ONE of the following alternatives:



## Alternative A

Complete a survey (either an area or sampling survey) of a natural habitat chosen by the Patrol. The survey should aim to show changes in animal life and plant life at times chosen by the Patrol to coincide with seasonal differences. Make a plan and display of the area and report to the Troop as a result of the survey.

Invite an Ecologist to address the Troop on Ecology.

The Patrol should arrange the speaker and choose the topic e.g. the rare and endangered species of New Zealand birds, how introduced birds affect our New Zealand native birds.

Where possible, the speaker should be invited to the Troop to coincide with the Patrol's report on the survey.

Check also your Silver Scout Award / New Experiences / Challenges.

## Alternative B

Prepare a publicity display for a shop window or foyer in which every member of the Patrol shares in the planning and preparation.

The display should have a particular theme and should include charts, diagrams, and other clear, visual material to support the theme.

The Challenge Patrol Leader, along with the Scout Leader, arrange the venue for the display.

E.g. Community Library foyer, Council building foyer

List your suggestions for your theme.

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List your suggestions for where you could display your theme.

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# Entertainment

As a Challenge Patrol, complete Section One and ONE of the alternatives in Section Two.



1. Prepare and serve a five course meal (soup, entrée, main course, dessert, coffee/tea, cheese board) observing the etiquette for entertaining guests. The guests should ideally be parents of the Scouts in the Patrol.

List your ideas for your five course meal.

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2. (i) As a Patrol, arrange to attend a stage production: drama, opera, choral, orchestra, pop, vocal.

Report to the Troop the impressions gained from the performance, such as professionalism, audience appeal, continuity, sound, lighting etc. where appropriate.

- (ii) As a Patrol, arrange an interview with a producer or stage manager. Through this interview gain a working knowledge of the layout of the stage, terms used for stage direction, tasks of the stage crew, décor, make up, lighting effects, properties and wardrobe.
- (iii) As a Patrol, produce a play, sketch, musical item to a performance standard, using lighting, make up and costumes. The item is to be presented as a public performance at a Group or Zone function – e.g. Group or Zone AGM, awards ceremony, training course...

List down your ideas for your patrol performance.

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# Journalism

*As a Challenge Patrol, select and satisfactorily complete ONE of the challenges in Section One and TWO of the challenges in Section Two.*



### Section One

1. Either – Establish and edit for at least one term, your Scout Group or Troop newsletter. Be responsible for its form, soliciting of information, editing, general reporting and publication. Your Scout Leader or Group leader could assist with this.  
Or – For one term, contribute original material such as reports, reviews, stories, cartoons/illustrations, photos to your Scout Group, Zone, Region or Scouts NZ newsletter.
2. Have accepted for publication by your Zone, Region or SCOUTS New Zealand newsletter, one article composed by your Challenge Patrol reporting on a local Scout event.
3. Research and write a Troop, Group or Zone history.

### Section Two

1. Prepare a log of a Group or Troop camp or hike. Each person should be responsible for a certain part of its production.
2. Know the basics of desk-top publishing on a computer. Produce a simple newsletter on a publishing-type computer programme.
3. Study the editorial or leading articles in two newspapers for four weeks. In discussion, compare and contrast these, paying attention to style, choice of subject and content.
4. In your own words, show that you understand the usefulness of different typefaces and layout in presenting information to a reader.
5. Either write to or visit a radio or television studio to find out how a news or current events programme is prepared and presented.
6. Find out what agencies/resources supply news items to radio, television and the press. How do these agencies operate and how is material transmitted?

## Scout Patrol Challenges

# Literature

*As a Challenge Patrol, complete ONE of the Visit activities, and ONE of the Challenge Patrol Literature Activities. Each member of the Challenge Patrol must also choose ONE of the Personal Presentation activities.*



### Visits

1. Publisher – Look at the process of selection and rejection of material, editing, setting up, printing, binding, photography and final promotion of books.
2. Printer – Look into different printing methods, their application, advantages and disadvantages.
3. Library – Look into how to gain information on selection of books, arrangement of collections, maintenance and care, finance and borrowing patterns of adults and children.
4. Bookseller – Discuss trends in sales and material being made available.
5. Visit a local author or poet. Discuss their work, experiences, and opportunities in New Zealand for publication.

### Challenge Patrol Literature Activities

1. Write and produce a short play or review (15 – 20 minutes) suitable for a Troop or parents evening.
2. Rehearse and record either an existing radio play or an adaptation from a suitable work of your own choosing.
3. Prepare a video (5 – 8 minutes) adapted from a novel or short story of your own choice.
4. Arrange a short literary evening for your Troop or parents. Include reviews, readings of prose and verse.
5. Arrange a display of original material written by your Challenge Patrol members. This could include work in prose and verse, and could be combined with photography or other related art forms.
6. Prepare a display of the work of at least two New Zealand writers of prose, verse or drama. Include a review or original comments on each of the works.
7. Arrange a display of books, publications or printing based on one of your visits.
8. Prepare a display of works representing the main periods in English literature. Include your own commentaries on each selection, indicating its importance in a particular period.

### Personal Presentation

1. Lead a discussion of at least three novels of related type. Attend to style, characterisation, setting, narrative technique and the author's success.
2. Talk for a minimum of 10 minutes on one author of your choice. Illustrate with examples from his/her works.
3. Lead a discussion on the differences between journalism and creative writing.

## Scout Patrol Challenges

4. Talk to your Challenge Patrol on the work of at least two recognised authors in your field of interest.
5. Show, in discussion, and by selected examples, an appreciation of different narrative techniques.
6. Discuss your views of the reasons for the success of a popular modern writer, e.g. J K Rowling, J R R Tolkien, Roald Dahl, Enid Blyton, Dr Zeuss, C S Lewis.
7. With carefully selected examples, talk to your Challenge Patrol on the work of a 20th or 21st century poet, showing your appreciation of his/her style, subject matter and point of view.
8. Discuss, with your Challenge patrol, at least three different books you have read within the last six months. Compare the styles and technique.

## Local History

*As a Challenge Patrol, work together to find information and build up a record for this Challenge. On completion of the Challenge, make a report to the Troop.*



Know the local history of the area in which you live from the arrival of the first people to the present day.

Select a decade in the history of your local area and write a brief record of the period.

Know the names of the Mayors of your Local Body for the past 15 years.

As a Challenge Patrol, arrange to visit a local person who can talk about a particular personal experience in the local area, or a local event.

Know the names of the five previous Governor-Generals.

Know the importance or significance of any local monuments, buildings, or properties in the local area.

Find out and know the responsibilities of the Historic Places Trust.

## Master Camper

*Members of the Challenge Patrol should have an average of eight (8) camper nights and a working knowledge of the "Camp Planning Book" before undertaking this Patrol Challenge.*



1. Plan and carry out a camp of at least three nights at a site chosen by the Challenge Patrol. The camp site must not be a permanent or an established camping ground.
2. Plan and carry out the following:
  - Provide a programme approved by the Patrol Leaders Council

## Scout Patrol Challenges

- Obtain permission for use of the campsite
  - Provide Activity Intention and RAMS forms
  - Arrange all equipment, organise your menu and food.
3. The camp must have a field toilet, store tent, dining shelter, sleeping tents, properly functioning kitchen area (not pre-fabricated), and camp gadgets. Use appropriate fuel as necessitated by conservation or fire restrictions.
  4. The programme should include responsibilities and duties of Scouts participating, activities, a Scouts' Own, emergency procedures.
  5. The Activity Leader should be proficient in First Aid.
  6. The camp should be visited by the Zone Scout Leader or a nominee. The visiting Leader will be able to discuss with the Challenge Patrol any improvements, suggestions and recommendations.

## Nautical

*As a Challenge Patrol:*



1. Be skilled in the use of the following knots: Reef, sheetbend, bowline, sheepshank, round turn and two half hitches, fisherman's bend, figure of eight, rolling hitch. Associated skills such as care of ropes, coiling, storing, checking for fray, whipping, splicing etc. should also be known.
2. Undertake the maintenance of a Sea Scout Standard boat or a Sunburst and a pulling dinghy and all the associated gear, rigging, sails, for three months keeping a log detailing all work undertaken.
3. Demonstrate knowledge of the Scout Boating Rules in the Rule Book and show a detailed knowledge of your boating area, tides, tidal streams, dangers, and weather conditions.

Before undertaking any of the activities below, the Challenge Patrol must satisfy the Scout Leader that they have met the requirements of #3. The requirements for Charge Certificates must be met and the Challenge Patrol Leader must arrange for a Charge Certificate holder to be present during these activities.

5. Organise and carry out ONE of the following activities:
  - A day in a Standard boat, under oars, covering at least six (6) nautical miles.
  - A day in a Standard boat, under sail, covering at least nine (9) nautical miles.
  - A day trip in canoes covering at least six (6) nautical miles.
  - A combined boating/camping weekend involving an overnight camp and at least 10 hours boating or canoeing activities.



# Observation

As a Challenge Patrol, successfully complete the first **General** challenge, and then select **ONE** of the remaining challenges to complete the Award.



### General

Choose six (6) of the following categories and produce not less than seven (7) sketches of each in pencil or another chosen form. Each example should be correctly labelled and when completed, a display should be prepared for the Troop to view. Sketches are to be taken from personal observation:

*Trees or shrubs, wild flowers, birds, butterflies, moths or insects, animals other than domestic pets, ferns or grasses, seashore or pond life, rocks or fossils.*

### Tracking

1. Working together, make a set of twelve (12) plaster casts of bird, animal or human prints, machines/vehicles, or any combination of these.
2. Successfully follow a laid trail of at least three kilometres for which at least twenty (20) signs or clues are provided.

### Sky

1. Recognise correctly 75 % of photographs of aircraft used in New Zealand. At least fifteen (15) photographs of silhouettes to be shown each for 10 seconds.
2. Identify six (6) different cloud formations
3. Read a weather map and indicate the main features of weather shown on it.
4. Know and point out six (6) different star groups or constellations in the night sky.

### Sea

1. Recognise correctly 75 % of photographs of ships or vessels familiar to New Zealand waters. At least fifteen (15) photographs or silhouettes to be shown each for 10 seconds.
2. Identify six (6) types of yachts out of ten displayed.
3. Know and point out six different types of canoes, or dugouts, from 10 illustrations or sketches produced by the Challenge Patrol.
4. Draw in colour from memory the house flags or funnels of five different shipping companies. Each member of the Challenge Patrol to complete this activity.

# Scout Friendship

*Find out the answers to Section A and carryout ONE of the alternatives in Section B.*



### Section A

- What are the member countries of the Asia-Pacific Region? Produce a map showing them.
- How many Scouts are there worldwide and in the Asia-Pacific Region? Where is the World Scout Bureau and what are its responsibilities? Produce a chart showing them.
- Who holds the following appointments in Scouts NZ and your Zone? Chief Scout, National Scout Leader, Assistant National Scout Leader, your Zone Scout Leader.
- What and where are the 5 Regions in Scouts NZ? Draw them on a map.
- What and where are the zones in your Region? Draw them on your map.
- Where is the National Scout Centre? Draw it on your map.
- What are the responsibilities of the National Office of Scouts NZ?
- List the major events in Scouts NZ calendar including upcoming Jamboree venue and dates, National Scout Schools venues and dates, and who is able to attend.

### Section B

1. Organise and arrange an International Scout night for your Troop. As part of the programme, your Challenge Patrol should arrange a display of Scouting such as campfire blankets, mementos and items from other countries. Arrange for a person who has been to an overseas Scout event to visit the Troop and give a talk or show a video, and display mementos.
2. Establish and maintain contact with a group of Scouts in another Scout Region in New Zealand for a period of at least six months, corresponding regularly and exchanging ideas about Patrol and Troop activities.

# Service

*Complete both sections.*



### Section A

As a Challenge Patrol, plan together a programme providing assistance within your community for one term (approximately 10 weeks).

The service offered should total at least 25 hours.

Some suggestions: responsibilities at a rest home, weeding, planting, helping children with special needs, serving refreshments at a function for senior citizens or a children's hospital ward, help local Scout Leaders (who may not have time at home while they are taking scouts out on activities).

*The service provided can be offered to a variety of organisations. The importance is the Challenge Patrol's commitment to helping other people.*

Keep a log of your activities, with photos.

### Section B

During the time in which the Challenge Patrol is undertaking this Challenge, carry out an investigation into the kinds of service organisations in your community. Choose the work of one organisation and investigate its operations further; its objectives, organisations, method of operation, financing. Report your findings to the Troop.

# Technology

*Each member of the Challenge Patrol is to select a technology subject, study it, and arrange for the instructor to provide a test at the conclusion of the instruction.*



Arrange with the instructor for suitable times to meet, and the extent of the course in the chosen subject. The period of instruction should total 6 to 8 hours.

A satisfactory pass would be more than 70% and the Scout leading the Challenge should attain 80% to hold the Leadership stage of the Challenge (Red badge)

Examples of topics: Photography, Amateur Radio, Mechanics, Chemistry, Mathematics, Meteorology, Astrology, Marine Navigation, Physics, Lathe work, Astronomy, Physiology, Boat Design, Aeronautics, Draughting, Welding, Taxidermy.

# World Conservation

*If you need help with this Challenge, utilise websites and people from Department of Conservation.*



1. With your Challenge Patrol, find out and illustrate in a scrap book or wall display, what causes the following: (choose TWO) water pollution, soil erosion, decomposition of refuse, pollution of the air.
2. Carry out a study of plants and animals and prepare a record of those in your part of the country that are in danger of extinction and why. This can include field work.
3. Carry out TWO of the following:
  - a. Collect muddy water in a glass jar, from a sizeable stream, and allow it to stand for six (6) hours. Then observe the amount of soil that settles in the bottom. State where you think the soil originated and why.
  - b. Through an experiment, show how the soil is lost by wind, rain and bad management and what can be done to avoid this happening.
  - c. Demonstrate the make up of good soil.
  - d. Demonstrate through an experiment, the effect of good soil or bad soil for growing seeds.
  - e. Demonstrate how fog/smog is formed.
  - f. Keep a daily record of the weather for your neighbourhood during one month. Include rainfall, sunshine, fog (or smog), temperature, wind speed and direction, and humidity.
  - g. Build up a collection of plaster casts in non-domestic animal tracks. Label the casts.
  - h. Show, for example by means of a scrap book or display, why so many animals in the world are threatened with extinction. Make suggestions how we can help them to survive and find out what you personally can do to prevent them from extinction.
  - i. Make a sketch illustrating the complete water cycle using and describing the following terms: precipitation, run off, ground water, water table, evaporation, transpiration.
4. Carry out TWO of the following:
  - a. Make and maintain a nature trail. Help long term.
  - b. Make practical arrangements for the winter feeding of wild animals and birds.
  - c. Make and maintain a pond for fish, birds or amphibians.
  - d. Build an observation shelter, use it, and prepare a report on your observations.
  - e. Help clear a stretch of river or lake-side.
  - f. Plant natural screening for landscaping of unsightly industry or rubbish dump.
  - g. Plan and carry out an anti-litter campaign.
  - h. Plan and carry out any other similar project which has been agreed by your PLC and Scout Leaders.
5. Take part in a project that will improve your environment e.g. a local, national or international conservation project.



## NATIONAL OFFICE

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