



# Frog Worlds: Adaptations & Survival

A single lesson, cross-curriculum Curiosity Pack for Year 7

## At a Glance

**Topic:** Frog Adaptations & Survival

**Age Level:** Year 7

**Session Length:** 45–60 minutes

Pathfinders will:

- investigate frog adaptations
- explore how adaptations support survival
- compare different survival features
- examine how environments influence animal characteristics
- create a Frog Adaptation Project

## Lesson Overview

This Curiosity Pack introduces Pathfinders to the concept of adaptation and how living things develop features that help them survive in different environments.

Learners investigate a range of frog adaptations and explore how body structures, behaviours, and physical characteristics help frogs find food, avoid predators, communicate, move, and survive.

Pathfinders examine examples such as camouflage, webbed feet, sticky toes, long legs, poison skin, and specialised eyes and skin. They investigate how different environments create different survival challenges and how adaptations help organisms respond to those challenges.

The lesson combines science, literacy, observation, design, and inquiry learning through investigation, comparison, analysis, and project creation.

This learning experience supports:

- observation and questioning
- scientific understanding
- comparison and classification
- critical and creative thinking
- visual communication
- problem-solving
- design thinking

The lesson is designed using inclusive learning principles, supporting diverse learning needs through:

- self-paced learning
- visual supports



- flexible activity choices
- hands-on exploration
- multiple ways to show learning

## **Session Length**

**Total learning time:** 45–60 minutes

Pathfinders may:

- ✓ complete the lesson in one session
- ✓ pause and return later
- ✓ spend longer on favourite activities
- ✓ simplify or extend the task

## **Learning Focus**

This Curiosity Pack explores:

- frog adaptations
- survival features
- habitats and environments
- animal behaviour
- scientific observation
- biological diversity

Learners will:

- ✓ investigate frog adaptations
- ✓ identify features that support survival
- ✓ explain how adaptations help frogs live in different environments
- ✓ compare different frog survival strategies
- ✓ organise ideas visually
- ✓ communicate discoveries through drawing, writing, discussion, or design
- ✓ create a Frog Adaptation Project

## **Success Looks Like**

Success may look different for each Pathfinder.

Examples may include:

- ✓ identifying a frog adaptation
- ✓ explaining how a feature helps survival
- ✓ recording observations about frogs
- ✓ creating a labelled diagram
- ✓ comparing different survival features



- ✓ designing a frog with adaptations
- ✓ sharing discoveries in a way that works for them

Exploring, noticing, investigating, and creating are all part of success.

## **Materials**

You may want:

- paper or workbook
- pencils and coloured pencils
- ruler
- books or websites about frogs
- frog photographs
- adaptation diagrams
- sticky notes or index cards
- scissors
- glue

Optional:

- tablet or computer
- printer
- poster paper
- modelling materials
- digital design tools

## **Suggested Learning Resources**

### **Britannica Kids – Frogs**

<https://kids.britannica.com>

Reliable articles and images about frogs and amphibians.

### **National Geographic Kids – Amphibians**

<https://kids.nationalgeographic.com>

Facts, photographs, and videos about frogs and habitats.

### **Australian Museum – Frogs**

<https://australian.museum>

Information about Australian frog species and adaptations.





### **SciShow Kids – Amphibians**

<https://www.youtube.com/@SciShowKids>

Short educational videos about frog life cycles, habitats, and adaptations.

### **Online Safety Reminder**

When exploring online, remember:

-  Ask an adult first
-  Use trusted learning websites
-  Keep personal information private
-  Tell an adult if something feels wrong

Stay curious and stay safe.



## **Universal Design for Learning Supports**

This Curiosity Pack supports different ways of learning by providing flexible choices for engagement, learning, and expression.

### **Multiple ways to engage**

Learners can:

- choose which frog to investigate
- focus on one adaptation or several
- take movement or sensory breaks
- work independently or with support
- compare different species
- connect ideas to animals they already know

### **Multiple ways to learn**

Learners can:

- read facts
- watch short videos
- explore photographs
- examine diagrams
- compare different frogs
- discuss discoveries

### **Multiple ways to show learning**

Learners can:

- draw and label
- write notes
- create a poster
- build a model
- explain ideas verbally
- create digitally
- make comparison charts





## **Frog Worlds: Adaptations & Survival**

### **Pathfinder Guide**

Welcome Pathfinder!






Pathfinders explore the natural world by asking questions and noticing how living things survive in different environments.

Frogs live in rainforests, ponds, wetlands, forests, deserts, and many other habitats around the world. Although frogs may look different from one another, each species has features that help it survive.




Scientists study adaptations to understand how living things respond to their environment and how different species meet their survival needs.

Looking closely at frog adaptations can help Pathfinders understand how body structures and behaviours support survival.

During this Pathfinder Journey, Pathfinders may:

-  explore different frog species
-  investigate adaptations
-  examine habitats
-  compare survival features
-  create a Frog Adaptation Project


Ideas may be shown in many ways:

-  drawing
-  writing notes
-  creating charts



 designing

 creating digitally

 explaining ideas aloud

Activities may be completed in order or Pathfinders may begin with the part that feels most interesting.

Taking breaks, noticing patterns, asking questions, and making discoveries are all part of the Pathfinder Journey.


## **Pathfinder Investigation**

Pathfinders sometimes notice that frogs have special features that help them survive.


Different frogs live in different environments and face different challenges. Some need to climb, some need to swim, some need to hide from predators, and some need to communicate across long distances.

Scientists call these survival features adaptations.


Examples of frog adaptations include:


 long legs → jumping


 webbed feet → swimming


 sticky toes → climbing

 camouflage skin → hiding

 poison skin → protection

 loud calls → communication


 bulging eyes → wide vision

 moist skin → breathing and hydration

Each adaptation helps a frog survive in its environment.

 Some Pathfinders investigate by:


- looking at frog photographs
- examining diagrams
- reading adaptation facts
- watching videos
- comparing different species
- discussing survival features

 Pathfinders may investigate:

- What adaptation does this frog have?
- How does it help the frog survive?
- What habitat does the frog live in?
- What challenges does the frog face?
- Would this adaptation help another frog?



- What might happen without this adaptation?

 When Pathfinders investigate, they sometimes keep track of what they discover.

Ideas may be recorded by:

- drawing frogs
- labelling adaptations
- writing notes
- creating adaptation cards
- making comparison charts
- recording interesting discoveries

 Some Pathfinders may compare:

- climbing frogs and swimming frogs
- rainforest frogs and desert frogs
- camouflage and warning colours
- different survival strategies

Looking closely at similarities and differences can help Pathfinders understand how environments influence survival.

## **Pathfinder Studio**


Pathfinders now bring their discoveries together.


Scientists often use diagrams, models, displays, and visual explanations to communicate what they have learned about living things.


In this activity, Pathfinders may create something that shows what they discovered about frog adaptations.


Some Pathfinders choose to focus on:


 one frog species

 climbing adaptations

 swimming adaptations

 camouflage

 protection adaptations

 habitat survival








Or another adaptation that interests them.

 Before creating, Pathfinders may think about:









- Which adaptation is most interesting?
- How does it help survival?
- What habitat is involved?
- What challenges does the frog face?
- How can I show my ideas clearly?



You may create:

-  a poster
-  a fact page
-  a labelled diagram
-  a model
-  a digital design
-  a comparison chart
-  a mini booklet

You may include:

-  frog name
-  adaptations
-  habitat
-  survival advantages
-  explanations
-  drawings
-  comparisons
-  interesting facts





As you create, you may notice new connections between adaptations and survival.

There is no single correct way to create.

Different Pathfinders may choose different ways to share their discoveries.

## Reflection

How did this Curiosity Pack feel?

-  Loved it
-  Interesting
-  Okay
-  Challenging

Pathfinders may think about:

- Which adaptation was most interesting?
- Which frog surprised you?
- What did you discover about survival?
- What would you like to learn more about?
- Which activity did you enjoy most?

You may reflect by:

- talking
- drawing



- writing
- building
- recording a short explanation

