LESSON PLAN

Life Cycles of Frogs (STEM)

Early Learning goals

- Children access science and technology experiences safely (EYLF 1.4)
- Children explore the basic needs of living things and how to protect them & care for animals e.g. frogs, tadpoles etc (EYLF 2.5)
- Use digital technologies to access images & information, develop simple skills, and for creative expression (EYLF 5.5)

Activity

Continuing on from the theme of a frog's life-cycle upload a few blank pictures of frogs onto the program. Teach the children how to use the tools and features of the drawing and painting program so that they can colour in the different 2D templates of frogs.

Extension

In Paint 3D, demonstrate how to access the 3D library feature. Type in 'frog' to search for it and then place several frogs on the page. Choose the Fill tool and select a different colour for each frog. You can then create a sorting box for each frog of the same colour for the children to sort.

ICT Resources

- Computer - desktop or laptop
- Drawing and painting program such as Paint 3D
- Internet

ICT Levels of Differentiation

- To be able to complete the program with support
- To ask for the specific software title
- To be able to complete the program unaided
- To print out if appropriate

Ideas for adapting to my context

Lesson Procedure: How will it develop?

Introduction:

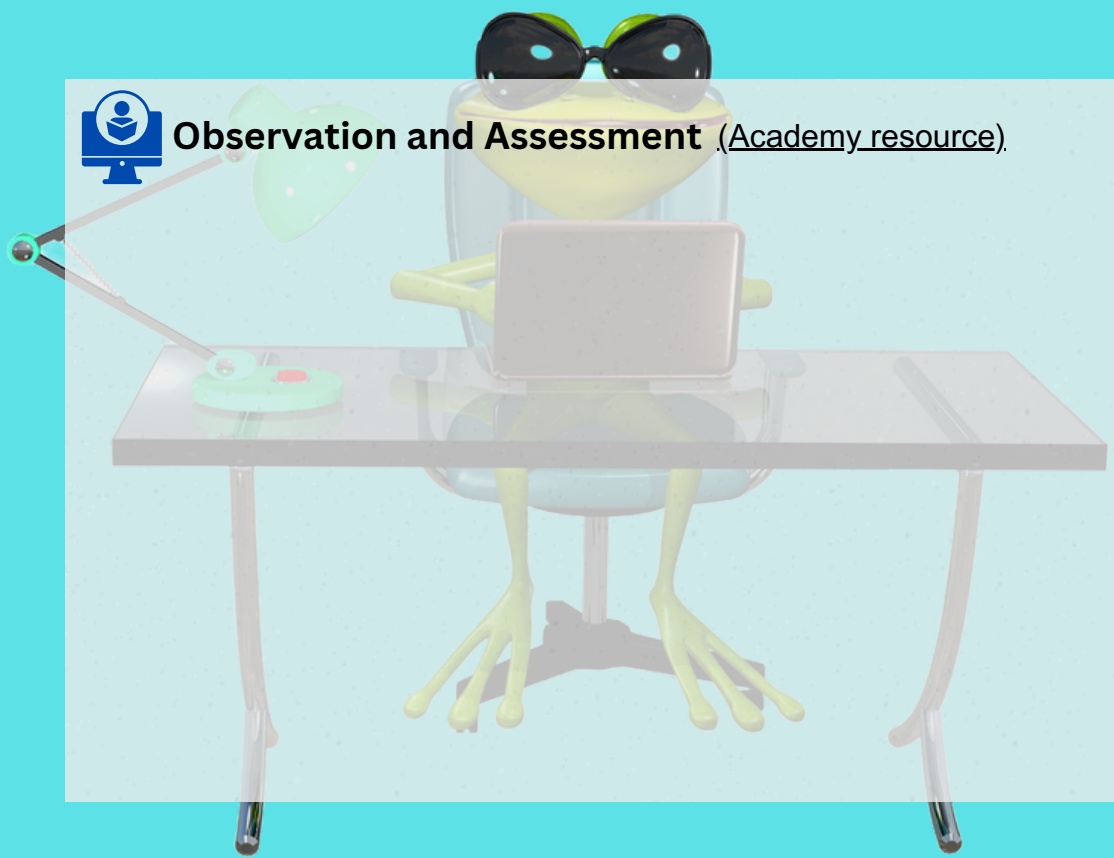
Main Activity:

Group work:

Independent practice:

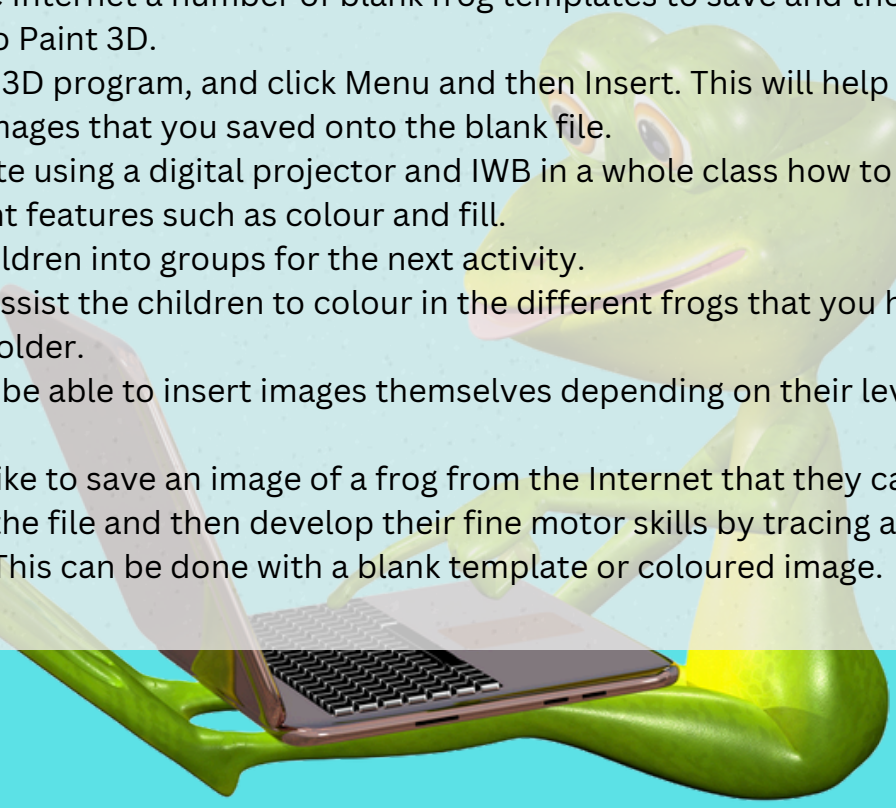
Critical Reflection (Academy resource)

Observation and Assessment (Academy resource)



Instructions

1. Find on the Internet a number of blank frog templates to save and then upload onto Paint 3D.
2. Open Paint 3D program, and click Menu and then Insert. This will help you to place the images that you saved onto the blank file.
3. Demonstrate using a digital projector and IWB in a whole class how to use the different features such as colour and fill.
4. Sort the children into groups for the next activity.
5. In groups, assist the children to colour in the different frogs that you have saved in a folder.
6. They might be able to insert images themselves depending on their level of capability.
7. You might like to save an image of a frog from the Internet that they can insert into the file and then develop their fine motor skills by tracing around the image. This can be done with a blank template or coloured image.



Higher Order Thinking Skills	Computer Skills	KLAs
Deciding what tool to use and why	Resizing images	Technology
Evaluate their use of program	Open & saving a program	Science
What keyword to use to search on Internet	Select colour fill	
Reflect on ICT learning	Selecting image	
Explain and justify why the program is suitable	Colour image	
	Inserting 2d or 3d images on a file	
	Undo	

ACADEMY RESOURCE

OVERVIEW

Science and Technology (STEM)

The Life-cycle of Frogs

Adapted from Hilton, Hilton, Dole & Campbell, 2014

Young children generally have an interest in young creatures. There are also often intrigued by concepts such as ‘who am I?’, ‘why am I me?’ etc. To capitalise on this interest, this lesson sequence will help you to engage young children in basic concepts of the life-cycle, with a specific focus on the offspring of living things - particularly plants.

Begin by reading books that have illustrations and that are able to be projected and shared about frog life-cycles. Ensure that they are appropriate so that they develop science understanding and literacy skills.

Introduce words such as eggs, tadpole, froglets and frogs.

When using online books on the IWB, it will be important for you to share the process of accessing them with children. It is through modelling that the children will understand methods used to safely find desired materials online.

At the completion, commence the following lesson integrating digital technology.

Why This Lesson Plan Is Different

This Life Cycle of a Frog activity is classroom-ready—and designed to grow with you. Every section of the lesson plan helps you deliver purposeful science learning and connect it to your professional growth.

Every section matters (Feature → Benefit → Impact):

- Learning Goals (EYLF-aligned) → Saves you hours of planning → Children learn with clear purpose (observation, sequencing, scientific language).
- Observation & Assessment Tables → Ready-to-use evidence collection → Children get targeted support and faster progress.
- Reflection Prompts → Simple questions that refine practice → Lessons improve each time you teach them.
- Higher-Order Thinking & KLAs → Shows the deeper skills you're building → Children think critically, compare stages, and explain change over time.
- Professional Growth Link → Workshop + workbook prompts → You log CPD from real classroom practice.

Scale It Now (Non-Member)

Give readers something they can action right away—then show how membership multiplies the impact.

- Photo Journal: Have children photograph each life-cycle stage (models, drawings, or books) and turn it into a class e-book.
- Stop-Motion Metamorphosis: Use a stop-motion app with paper cut-outs (egg → tadpole → froglet → frog); discuss "change over time."
- Habitat Mini-Lab: Build a simple terrarium model; chart water depth/leaf cover each day and talk about what frogs need to survive.
- Family Share: Send a quick gallery link or printed collage home; ask families to look for ponds or frog sounds on a walk.

You can do all of this today—but doing it alone takes time, and tracking learning can be hard. That's where membership changes everything.

The Membership Difference (Guided by Your Success Path)

Turn today's activity into a step-by-step professional journey—with support at every stage.

- Start (Try with confidence): Download the plan + printables; use the 10-minute setup guide and lesson script to launch with ease.
- Grow (Adapt with support): Use the Wisdom Tool and community threads for differentiated versions (visual supports, EAL prompts, mixed-age tips).
- Expand (Infuse across KLAs): Connect science to literacy (informational writing), numeracy (measurement charts), and technology (QR-coded galleries). Log CPD hours via the linked workshop.
- Lead (Share & inspire): Upload your variation to the community library, mentor peers, and model effective inquiry for your team.

Why Members Love Lesson Plans Like This

- Save hours with goals, assessment, and extensions already done.
- Gain confidence using structured reflection and next-step prompts.
- Grow professionally with workshops you can log as CPD.
- Download many activities—an expanding library of science & technology plans.
- Access member-made ideas: STEM technology activities for preschoolers are also contributed by members, refined through discussion and shared back for everyone's benefit.
- Get answers 24/7 via the Wisdom Tool—adapting lessons for your learners in seconds.

What You Unlock When You Download (Inside the Membership)

- Observation/assessment sheets pre-mapped to outcomes.
- Reflection worksheet to improve next time.
- Extension centers (habitat lab, stop-motion, vocabulary recording).
- Family letter/template for home connections.
- Slide deck for group time and review.
- Workshop link to log CPD immediately.

Join the ICT in Education Teacher Academy

Your free plan is just one example. Inside you'll find dozens of downloadable lesson plans and a community that keeps adding more—so you always have fresh, classroom-ready ideas to teach and tools to grow.

👉 Trial for $20 AUD per month — cancel anytime, risk free.
👉 Or switch to $200 AUD per year — save $40 instantly (2 months free).

[Join the ICT in Education Teacher Academy today]

Turn every download into powerful CPD—giving children meaningful science learning and giving you the structure, confidence, and community to thrive.