

AI Prompting for Nature Enthusiasts

By Åsa Jomård – Think Dive

Learning to prompt AI is like learning to ask intelligent questions. It's a powerful skill that helps us explore, invent, and solve real-world problems. When we use nature as inspiration, our prompts become even more exciting! Nature is full of beauty and clever designs, from spider webs to sunflower patterns, and AI can help us learn from them.

The best prompts are:

Simple – easy to understand and ask

Creative – full of imagination

Curious – exploring the world with wide eyes and wild ideas

Look at Nature Closely! Be curious and draw inspiration and beauty from the natural world around you.

*What patterns, shapes, and structures found in plants, animals, and ecosystems **do you notice?***
For example, a sunflower, a spider's web, or a raccoon's black "mask" around the eyes.

Ask: What Makes It Special?

What is this organism good at?

For example, a turtle has a strong shell, and a raccoon has nimble paws.

Imagine a Problem to Solve

What do people need help with?

People might need help with carrying heavy things, making strong clothes, and saving energy in buildings

Mix the Ideas!

Use the nature idea to solve the problem!

"Can I design a backpack like a turtle shell to protect my stuff?"

"What if clothes were made like spider webs. Strong material but light!"



Thank you for trusting my materials as part of your learning journey. If you have any questions or concerns about my use of AI, please don't hesitate to contact me.

AI was used for brainstorming these ideas.

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Tips for Creating Ethical Prompts with Imagination.

By mixing imagination with care, your prompts can help create a future that's not just smart, but also kind and sustainable.



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Start with

“Design a ___ inspired by ___”

Design a raincoat inspired by a duck's feathers, where the water just rolls right off!

“What if ___ worked like ___?”

What if cars worked like cheetahs, who are fast, flexible, and fuel-smart?

“How can nature help us ___?”

How can nature help us stay cool without using air conditioning?

How to Encourage Ethical Prompting

Think ethically *before* you ask the AI for a design:

Use Wonder Questions

I wonder if this idea would be safe for animals...

What would happen if everyone used this design?

Could this invention protect nature, not just people?

Would I want this in my own neighbourhood?

Linking AI Prompting, Biomimicry, and Life Cycle Analysis

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Think like a Nature Detective & a Planet Protector

Life Cycle Analysis is the examination of an object's entire journey, from its creation to its disposal or reuse.

Ask LCA (Life Cycle Analysis)

What is it made from?

How is it made?

How is it used?

What happens to it when we're done?

Add Deeper Thinking to Your Prompts

What problem am I solving? How does nature already solve it?

Can I design it with fewer materials or less waste?

Will this object have a longer lifespan, or can it be reused?

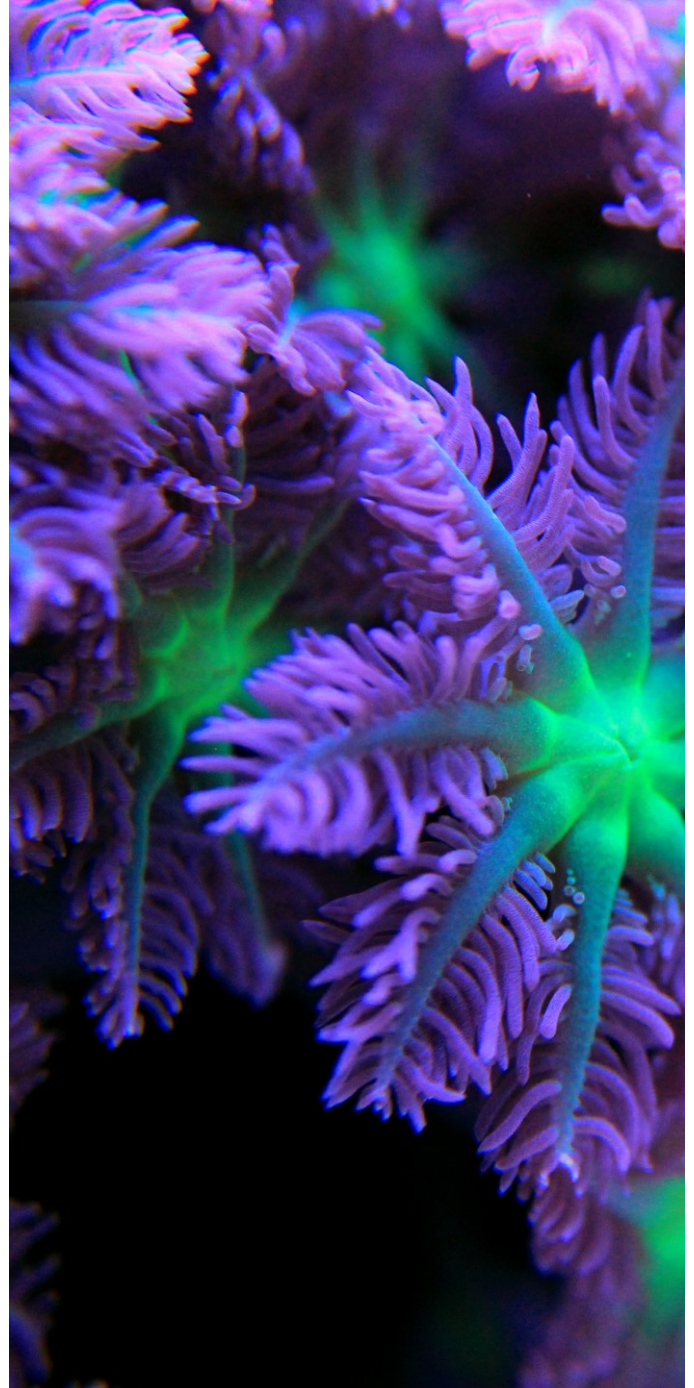
Does my idea help both people and the planet?

Basic Prompt

"Design a lunchbox like an armadillo shell."

LCA Prompt

"Design a lunchbox like an armadillo shell using Earth-friendly materials that can be reused or composted."



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AI Prompting - Nature's Life Principles

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“What would nature do here?” *Janine Benyus*

Life Principles: Adapt to Changing Conditions, Use Life-Friendly Chemistry, Be Resourceful with Materials & Energy, Integrate Development with Growth, Use Local Materials, Evolve to Survive



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Nature does not panic, it adjusts.

Prompt: Design a jacket that shifts with the seasons, like an arctic fox's fur turning white in winter and brown in summer.

Nature builds without harming life.

Prompt: Create soap inspired by how lotus leaves naturally clean themselves without the use of harsh chemicals.

Nature does more with less.

Prompt: Design a lightbulb inspired by a firefly that uses almost no energy.

Nature builds things that continue to function as they grow.

Prompt: Imagine a phone case that heals itself like a lizard regrowing its tail.

Nature uses local material.

Prompt: What if we made toys using materials found in our backyard, just like a bird builds its nest?

Nature learns and improves over time.

Prompt: What if shoes could learn from how we walk—and evolve to fit us better, just like animals adapt over generations?