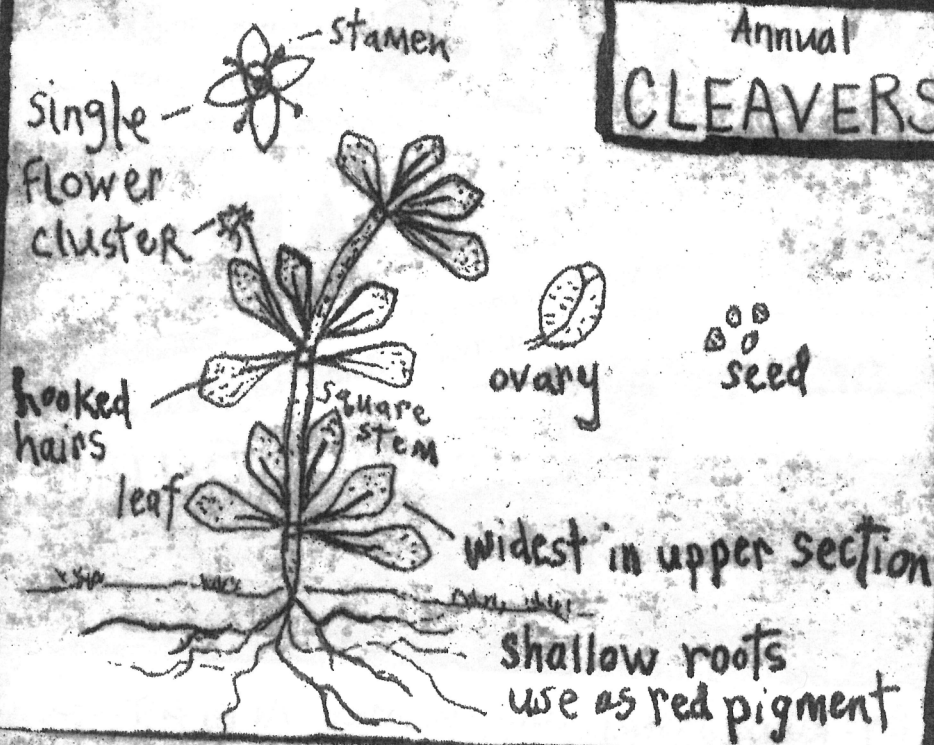


Botanical Anatomy

Annual
CLEAVERS



Includes

Educational
Colouring Pages

BUILD TOGETHER

Behind the Scenes

WRITING

by kuwa jasiri

(this one/that one):

Care Provider, Amigx, Confidant

Editing

RESEARCH

by Owen McCloud (he/him):

Gardener, Survivalist, Edible Berry Master

Consulting

Thredd LeFeel (they/
them)

ILLUSTRATIONS

By: kuwa jasiri and Winter Apprentice

Botanical Anatomy is a basic look at how Nature grows including non-binary reproductive flower cycles, and educational imagery.

SUPPORTING A DIVERSE NETWORK

OF GRASSROOTS. **Magick**



LISTEN, LISTEN

Sung by: People of Heritage Affinity Group

I hear the voice of my Ancestors calling me.

I hear the voice of my Ancestors calling me.

They say wake up, wake up

They say wake up, wake up

Listen, listen

Listen, listen

Language of Page Numbers

Twi dialect of AKAN

Publications

FEATURING
our other
TAPPENINGS

- Wild Wisdom of Seeds

- Beautifully Brown Like Me

- Tale of Weeping

- First Aide to Face Adversity

PROGRAMS

- Winter Care Packages,
- Regional Seed Lending Libraries,
- Zebra Collective Social Justice Community Trainings,
- Wildlands, and Watershed Restoration, -Theater Therapy,
- Educational Landscapes, -Seasonal Apprenticeship, and
- Wild Wisdom Workshop Series.

We create opportunity!

Dedication

TO NATURE

May we "quiet, be still"
and receive your wisdom.
THANK YOU??

potent
CONTENT and *warnings*

x the facts are these

x LIFE CYCLE from a Seed

1. Intelligent Waiting
2. Life Span
3. Anatomy of Plants
4. Pollinators
5. Seed Maturing
6. Seeds Dispersal

x Natural Process of Restoration

Mild story of Nature

Seed to Seeds Plant Cycle

The FACTS are these:

- Plants are the first complex life forms to thrive on land
 - Seeds are a source of life
- Our relationship to the elements Sun- Air -Water- Earth- Moon is vital to our collective survival
- The majority of plants we interact with are planted by strangers some generations ago, so plant for the future
- Our place is within nature. You are from a seed, and most genitals have the potential to carry the seeds of future generations.
 - Plants have stories, songs, and needs

The importance of Seed propagated life

- Continuation of diverse, and genetically strong traits
Cloned plants only carry partial genetics losing dominate traits from Seed parent(s) which most often require more care
- Hardiness is gained. Which is the ability for plants to reproduce without intervention
- Complete Cycle -- the purpose of a Seed is to produce life through an abundance of Seeds. Leave on flower heads until seeds fully form, and drop

"Limiting Concept of "Invasive

It is important to become aware that native habitat only represents a moment in the story of the landscape. All habitats evolve, and are in constant change. If we continue exerting huge efforts to control natural progression, we may be creating more damage than by simply doing nothing, or aiding the natural flow

Adapted from *The Wild Wisdom of Weeds*----

Books - 01

Seed Harvesting

Ask the plant(s), and any other species actively living, or using the area for permission. Inform them about how you plan to use them.

Y. Harvest only what you need, and will use only if there are multiple plants around. Always leave some for nature

Z. Give gratitude to the plant(s), and an offering to the landscape

These simple practices keep us in the frequency of respecting the intelligent life of the plants, the environment, and the universal flow of abundance. It is important that we embrace the full cycle of giving, and receiving. These practices ask us to go a little slower in our harvesting, which keeps us available for greater observation, and communication.

-----Adapted from *The Wild Wisdom of Weeds*

This booklet is to educate about Seed Harvesting for planting only. If you plan to forage in any other way, please consult the resource section, and educate yourself on Ethical Harvesting

“Seeds are the first link in the food chain as well as being the storage place for culture, and story, and we have the right to save and share them.”

--Doctor Vandana Shiva

Life Cycle from a Seed

beginning the moment the fully formed seed touches Earth

1. Intelligent Waiting
2. Life Span
3. Anatomy of Plants
4. Pollinators
5. Seed Maturing
6. Seed Dispersal

Mnienu - 02

1. Attentive Intelligent Waiting

The Seed is aware of surroundings waiting for ideal conditions before opening, and sending out roots. Seeds can wait for 20 to hundreds of thousands of sun cycles (a sun cycle is one Sun rotation around the Earth).

Conditions

Elemental - temperature, sun cycle, amount of sun/shade, oxygen level, water, moon phase

Germination - forest fire, nutrients in soil, exposure to deep freeze, and prolonged cold, fermentation, passing through a digestive tract, and exposure to rodents

2. Life Span

Annual: Plants produce large seeds, after living for one growing season

Biennial: Flowers, and dies in second growing season. Seed size varies depending on climate. May go dormant in roots during cold season

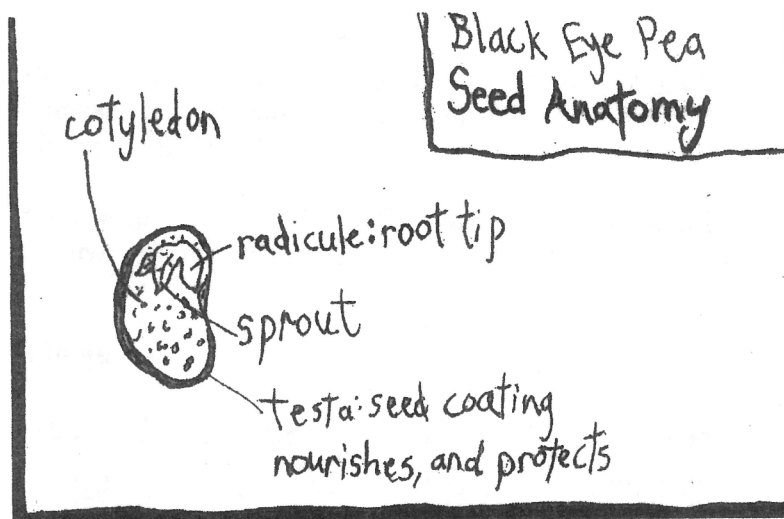
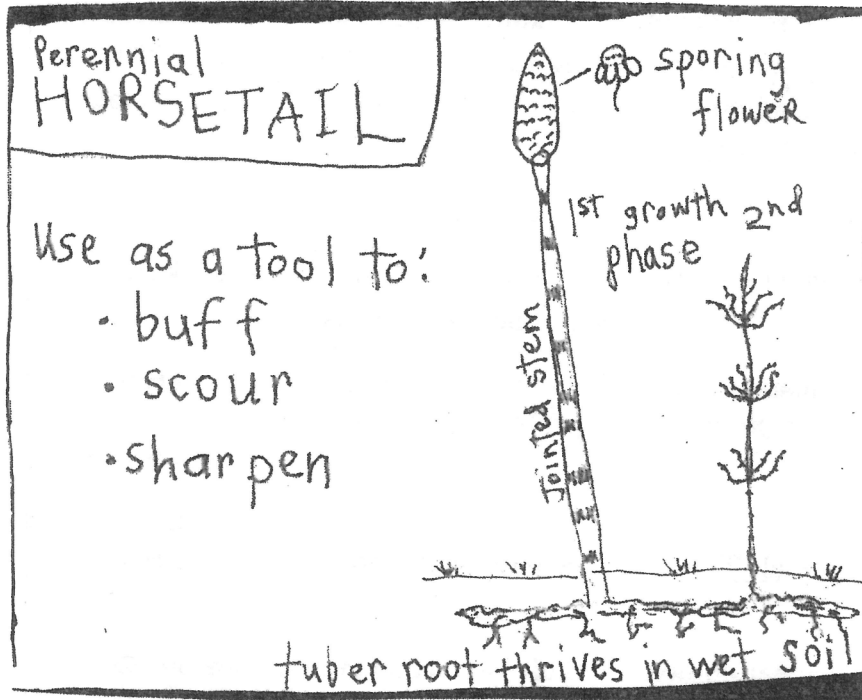
Perennial: Living three or more growing seasons. Depending on climate may go dormant in roots during cold season. Plants produce small seeds

Monocarp: Grows leaves for multiple growing seasons, then flowers, and dies during final growing season

3. Anatomy of Plants

Spores -- Seeds -- Roots -- Stems -- Leaves --
Flowers -- Fruits -- Bark -- Seedlings

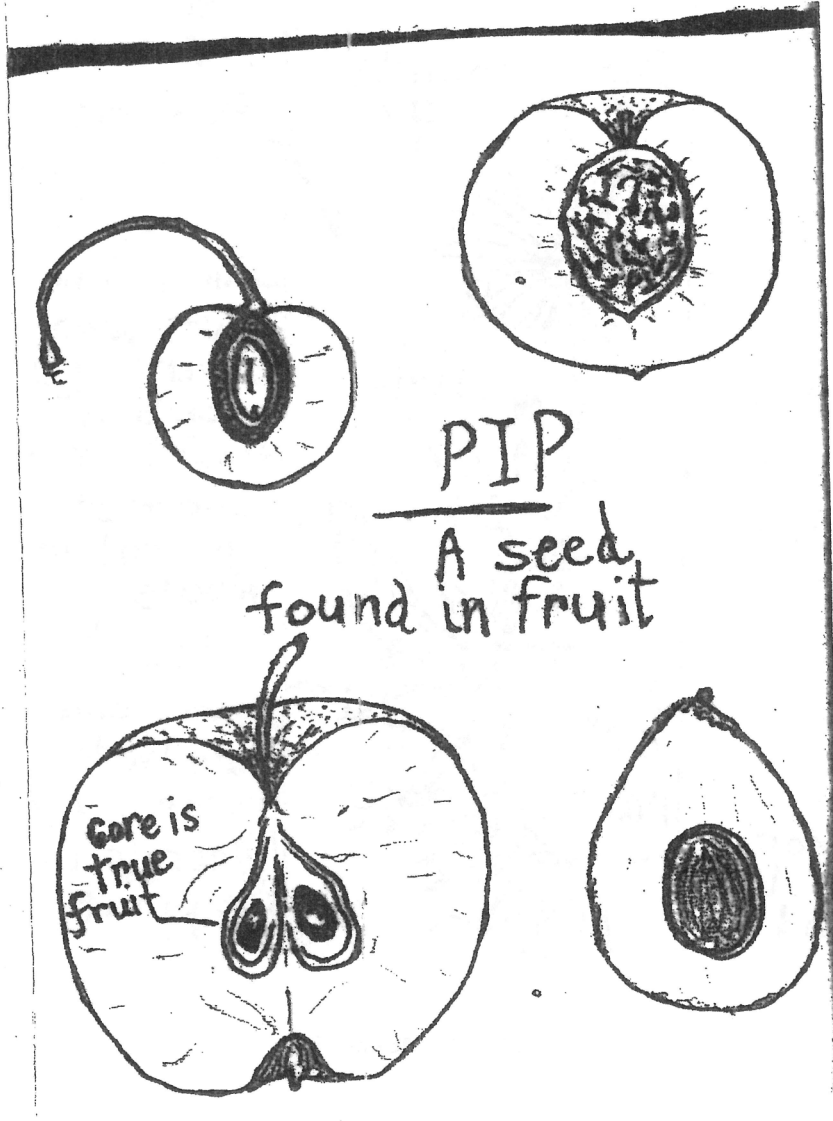
Mmiensa-03



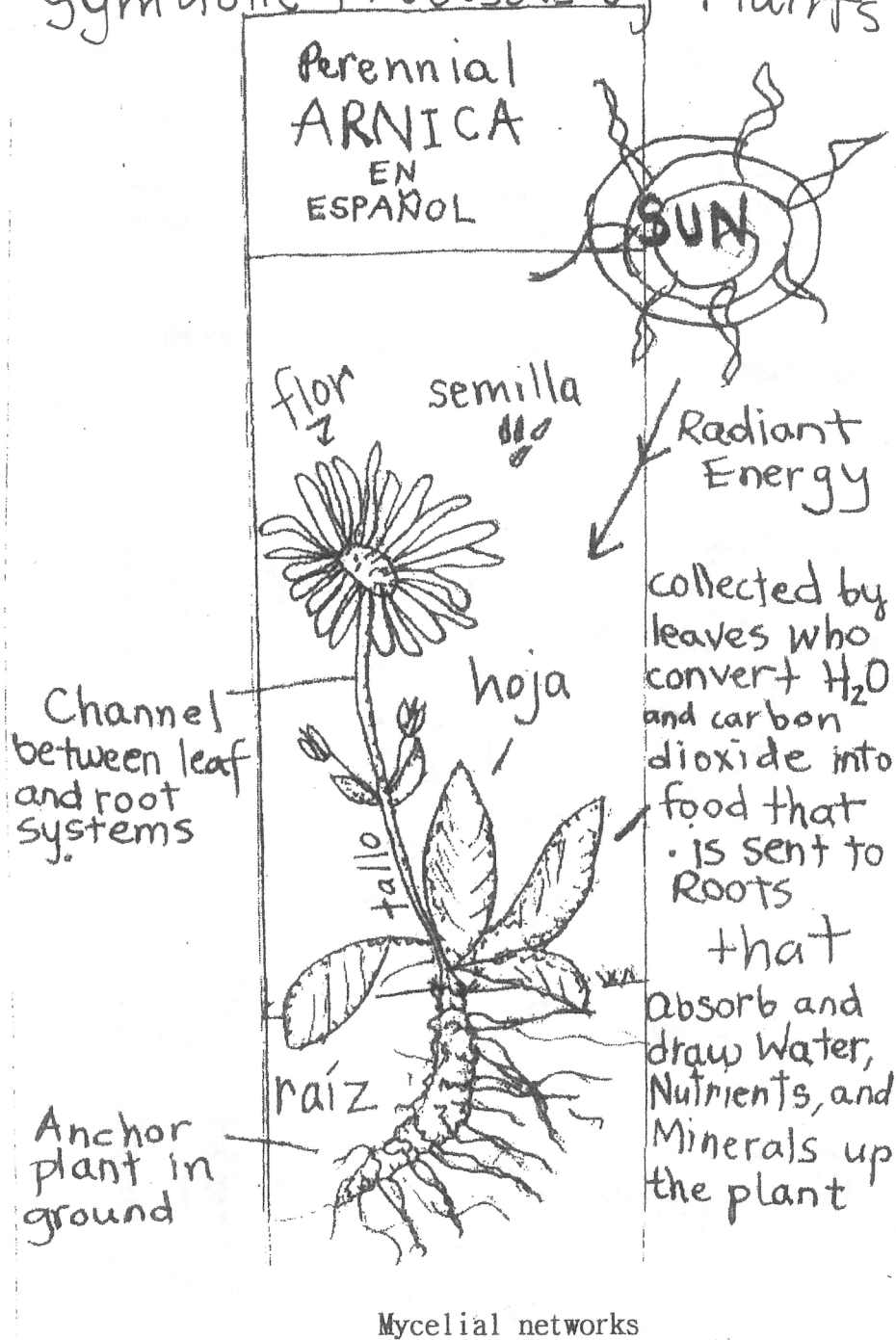
Seeds contain dormant sprouts formed at the base of the carpel. The Seed coating is a protective layer that nourishes, and prevents the seed from drying out.

Enan-04

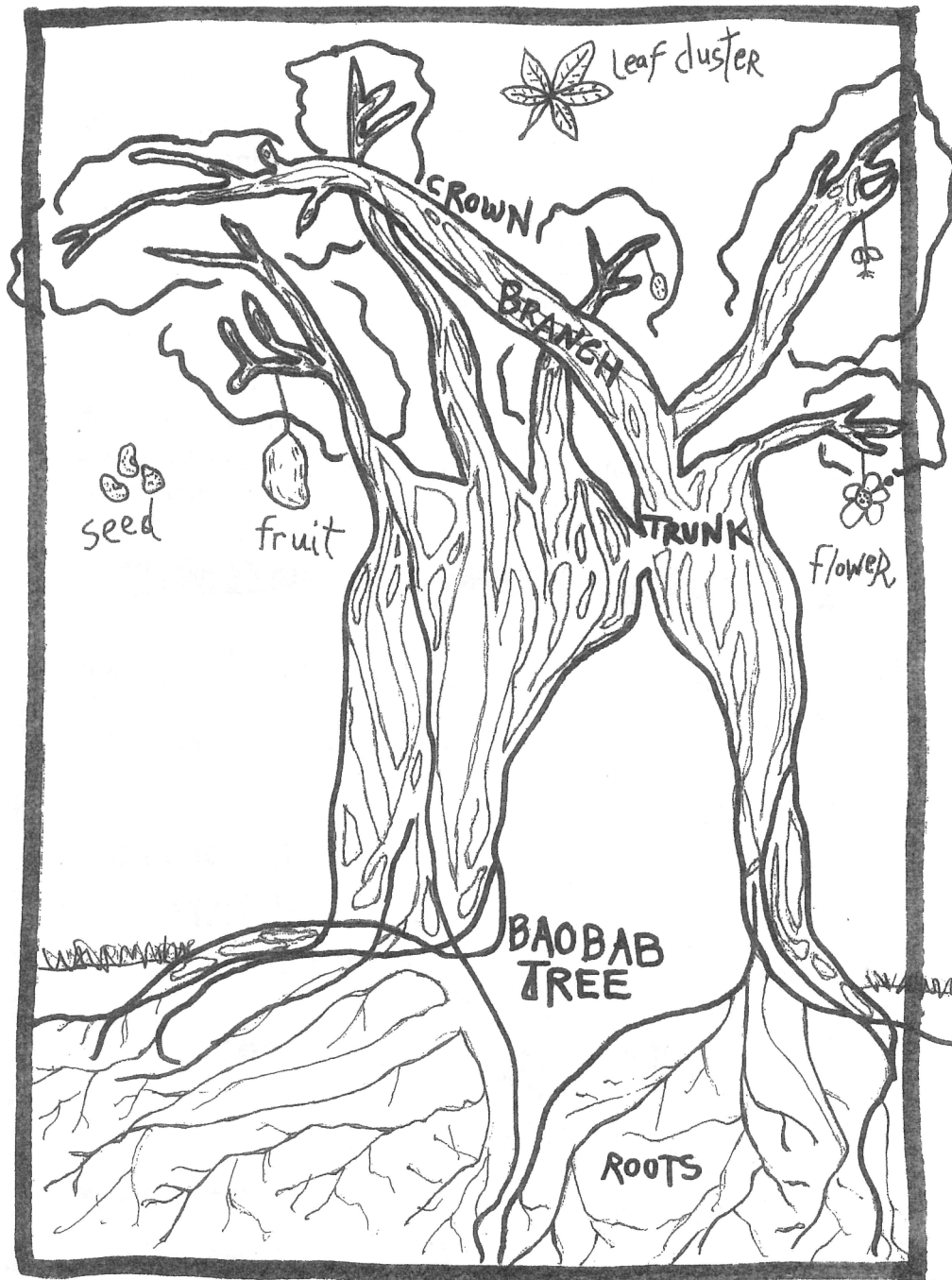
Even though plants can reproduce in other ways, Seed Production is the most effective way to ensure pure genetic diversity, and long-term success of a specie. Each Seed has the ability to root, become a plant that produces tens, hundreds, even thousands of Seeds. Seeds attempt to spread themselves as widely as possible, and we can keep up our specie cultural tradition of collecting, growing, and storing seeds
Adapted from *SeedSwap* -----



Symbiotic Processes of Plants^{most}



Enum-05

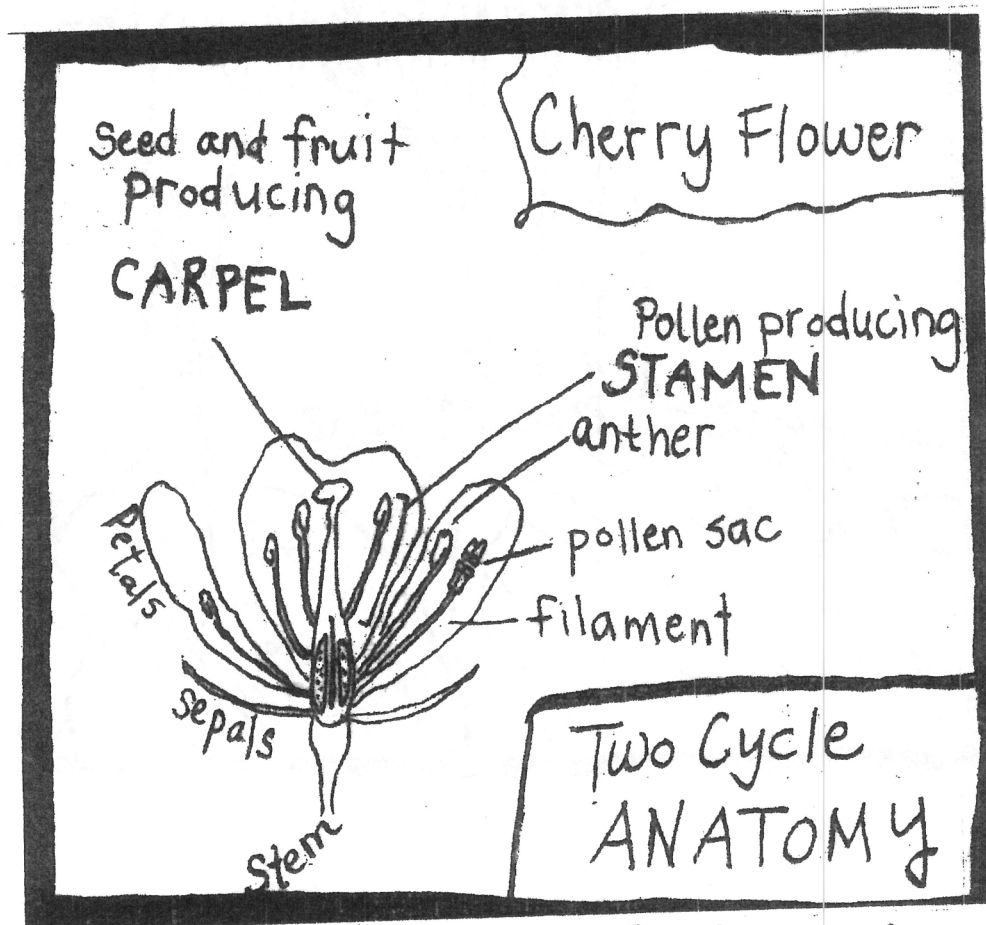


There are two cycles in the flower. The flower produces pollen grains in the stamens, and fruit forms from the pollinated carpels

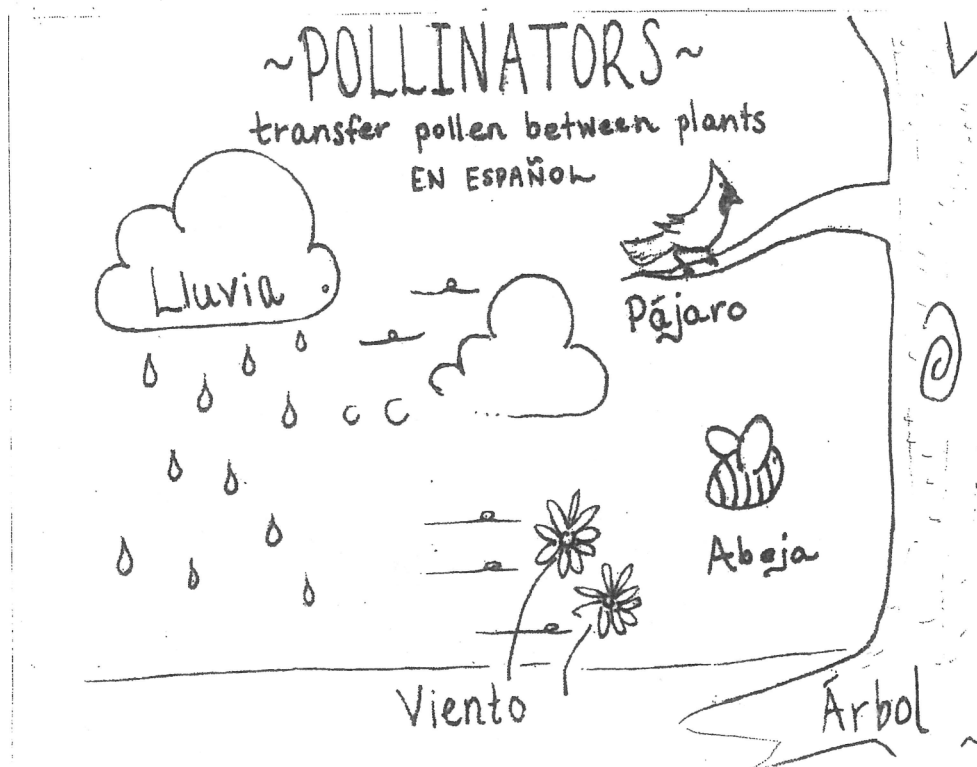
Flowers come in three varieties

- A. stamens and carpels
- B. only stamens
- C. only carpels

Most plants feature one variety of flower (dioecious), although some plants such as cucumber have both stamens only and carpels only flower (monoecious), alternating on the vine.



Ensia - 06



4. Pollinators

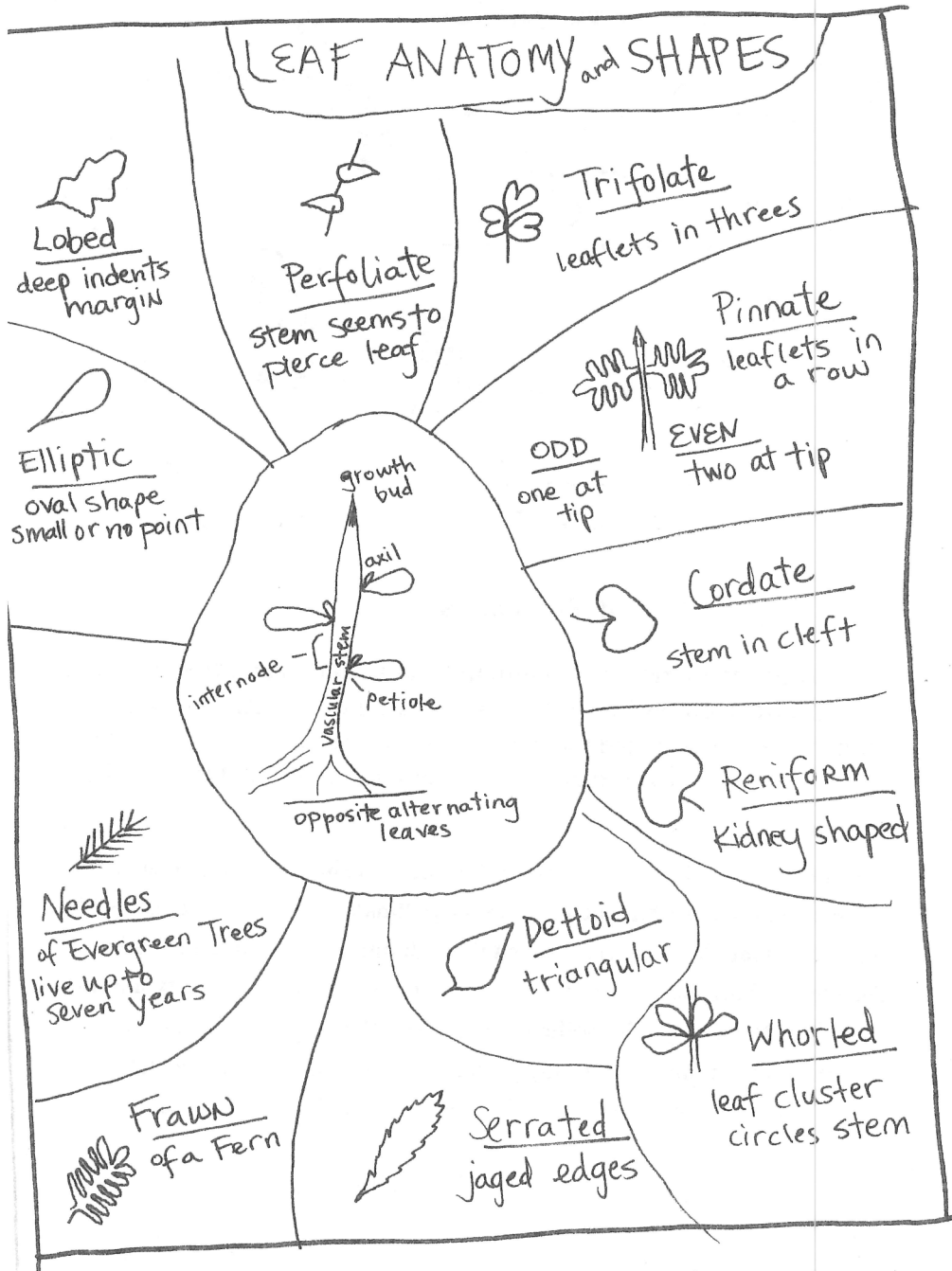
A group of elements, animals, and insects that transfer pollen between colourful flowers with dazzling patterns that give off seductive scents. Once the carpel is fertilized the use of the petals, and stamens are no longer needed, and they wither.

I detect birds, beetles, rodents, butterflies, bees the buzzing, humming breath of Weeping. I smile big, recognizing the pollinators as vital components of our ecosystem. Weeping reaches out through multiple precipitation puddles. The replenishing germinator, rain, creates tiny aquatic environments, a liquid supply to the thirsty. The pollinating ebb, and flow of wind chills me to an alert position, reminds me to stay present in every moment. I am attentive to the fully formed seeds in all directions; boldly beneficiaries.

---Excerpt from *Tale of Weeping*

Enson-07

:NoTes to RemEmber



Seed Maturing .5

Seeds develop in flowers, and fruit. Leave flower heads, and fruit to mature into Seeds, which takes about one moon cycle. (A Moon cycle is in four lunar phases, as the Moon orbits Earth) When fruits are dull in colour, and limp in composition, the Seeds are ready. When flower head Seeds are dry on the stem, and detach easily they are ready.

Seed Dispersal .6

Another symbiotic relationship Seeds have is with the animals, and elements that spread them, such as the waterways, wind, furry animals, rain, hungry mammals, and birds. Seeds develop buoyancy, feathery parts, burs, or sticky hooks to travel long distances. Some dry flowers, and fruits spring open sending Seeds into the world.

Plants Natural Process of Restoration

Life Scope

Primary Succession: Plants that establish life on barren landscape such as clear cut, wild fire, weeded areas, glacier recession, or volcanic eruption

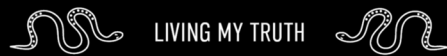
Secondary succession: Plants that establish in places that already have existing communities of organisms but the land has been recently disturbed (migrating animals, mowing, clearing along roadways, grazing animals, rock fall)

Succession of land

- M. Barren landscape
- N. Succession plants sprout
- O. Releasing compacted soil
- P. Increase in water available in top soil
- Q. Increase in shaded soil
- R. Drawing up minerals through root system depositing nutrients in top soil when leaves decompose
- S. Plant diversity flourishes

nwtwe-08

Authentic Creations



Cultural Seed Drive

Requesting Seeds native to west Africa, the Caribbean
& the Diné Nation for People of Heritage (of Color)

To donate, contact us:

<https://ArtisticApothecary.wordpress.com/contact/>

EatFirst! Joke: Butter you doing? I feel waffle.

MAY YOUR SEASON BE full of

bright ideas





kuwa jasiri Tyombe Indomela
(that one/this one)
Founder of Authentic Creations

Painting By: Victoria Coe

Who is mainly self-taught, with training programs by a Wild Foods Educator, and an Herbal Midwife. That one currently writes for Seed BroadCast Journal, EarthFirst! Journal and Authentic Creations Publishing. That one educates the public about, and protects nature from resource extraction. This one is the co-founder of several Seed Libraries across the world. As well as, owner of Authentic Creations, a local business specializing in hand-harvested Seeds.

Printing on Recycled Paper
By: Elias, Ami and Ptisawquah

Authentic Creations is a grassroots group spreading the wisdom of Seeds through tending the wounds of marginalized communities, and their land with our programs since 2011.

We are able to freely offer programs because of donations from people like you. To donate visit: [https://cash.me/\\$TyombeHallman](https://cash.me/$TyombeHallman)
If you want to contribute in another way, please email us at bebravegather@riseup.net

INSPIRED BY

Glorious
NATURE

I write this information to amplify observational
listening

Essential

TOOL

-Direct wisdom from the Plants

Seed Swap

Josie Jeffery

Ivy Press Reprographics

Tale of Weeping

kuwa jasiri

Authentic Creations Publishing

Plant Parts

Richard & Louise Spilsbur
Heinemann Library 2003

Magik and Medicine of Plants

Readers Digest

Readers Digest Association 1986

The Wild Wisdom of Weeds

Katrina Blair

Chelsea Green Publishing 2014

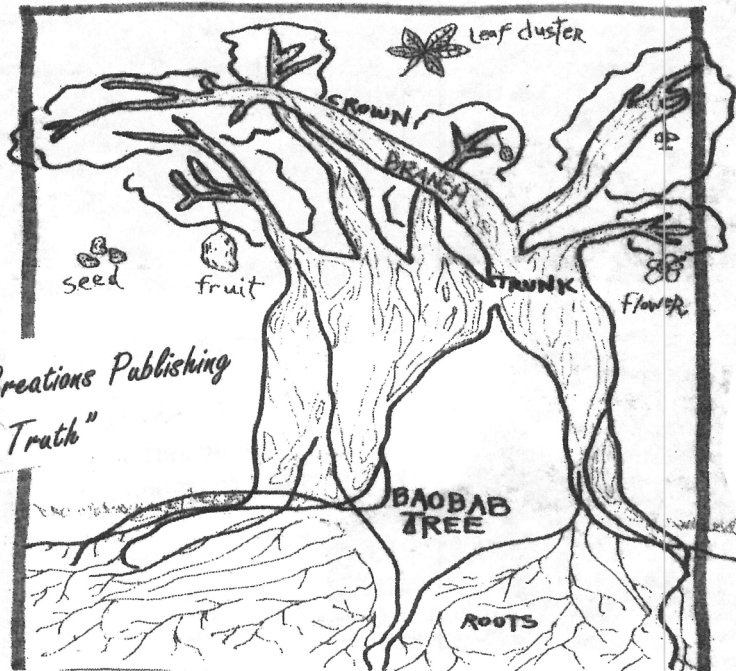
Plantas

Taylor, Barbara

Ediciones SM, c1997

THOUGHTFULLY

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