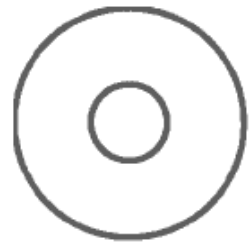


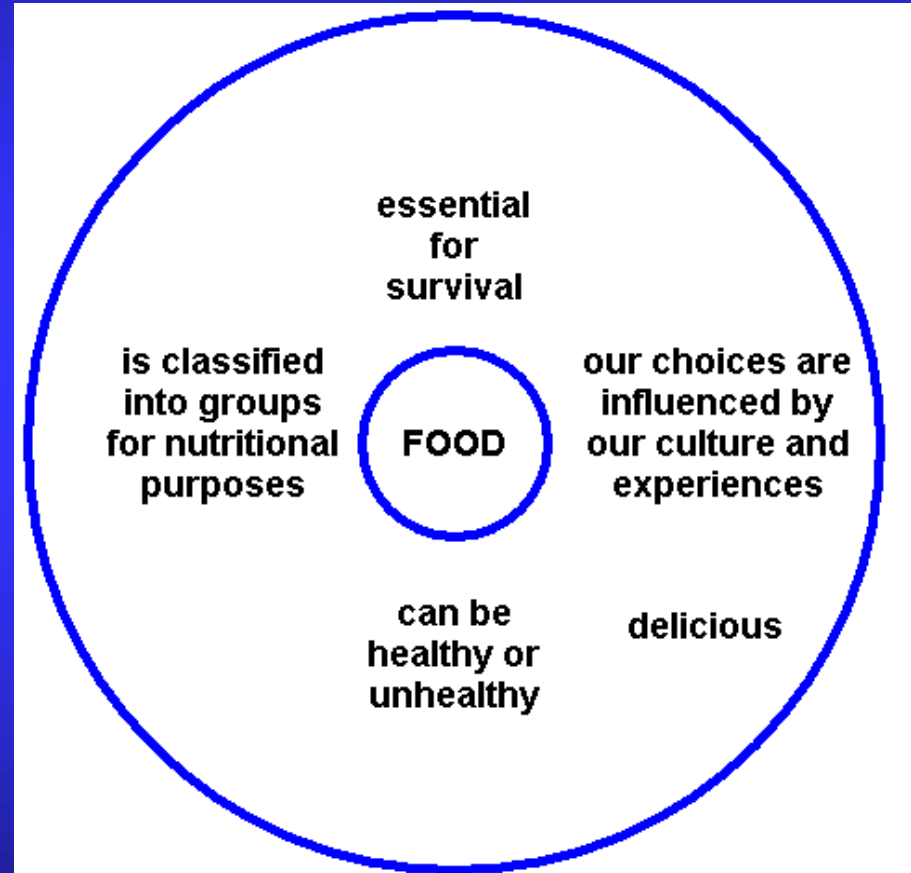
How are you defining this thing or idea? What is the context? What is your frame of reference?

DEFINING IN CONTEXT

Circle
Map



The Circle Map



Defining in Context

Our Way of

"Thinking"

About

The Wind

Gilberto
and the
Wind



To share all the information we know

No fibing

No sticking tugs out

No chiting

12 ich rose

Class
Rulse

No Buting in
Win pippol are
Tokeing TO The
Thcher

No roly eyes

No Troyn Thigs

No Say
Babwads

No climbing on thigs

No fiting

No Lay nden
win were on
the carpet

$3 + 3$

$1 + 5$

$2 + 4$

6

$4 + 2$

$0 + 6$

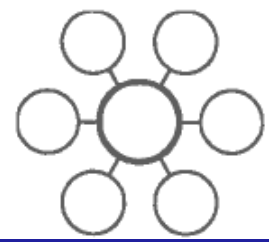
$5 + 1$

$6 + 0$

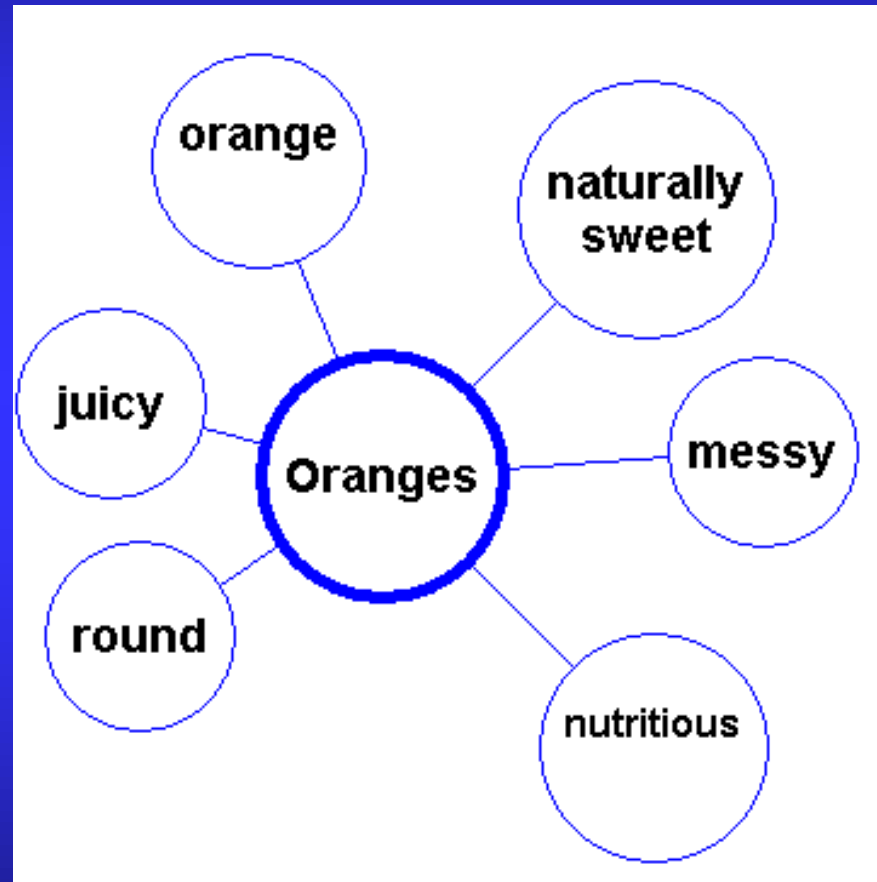
How are you describing this thing?
Which adjectives would best describe this thing?

DESCRIBING QUALITIES

Bubble Map



The Bubble Map



Describing



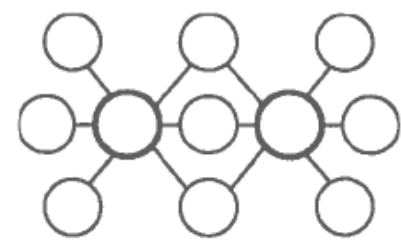
Bubble Map



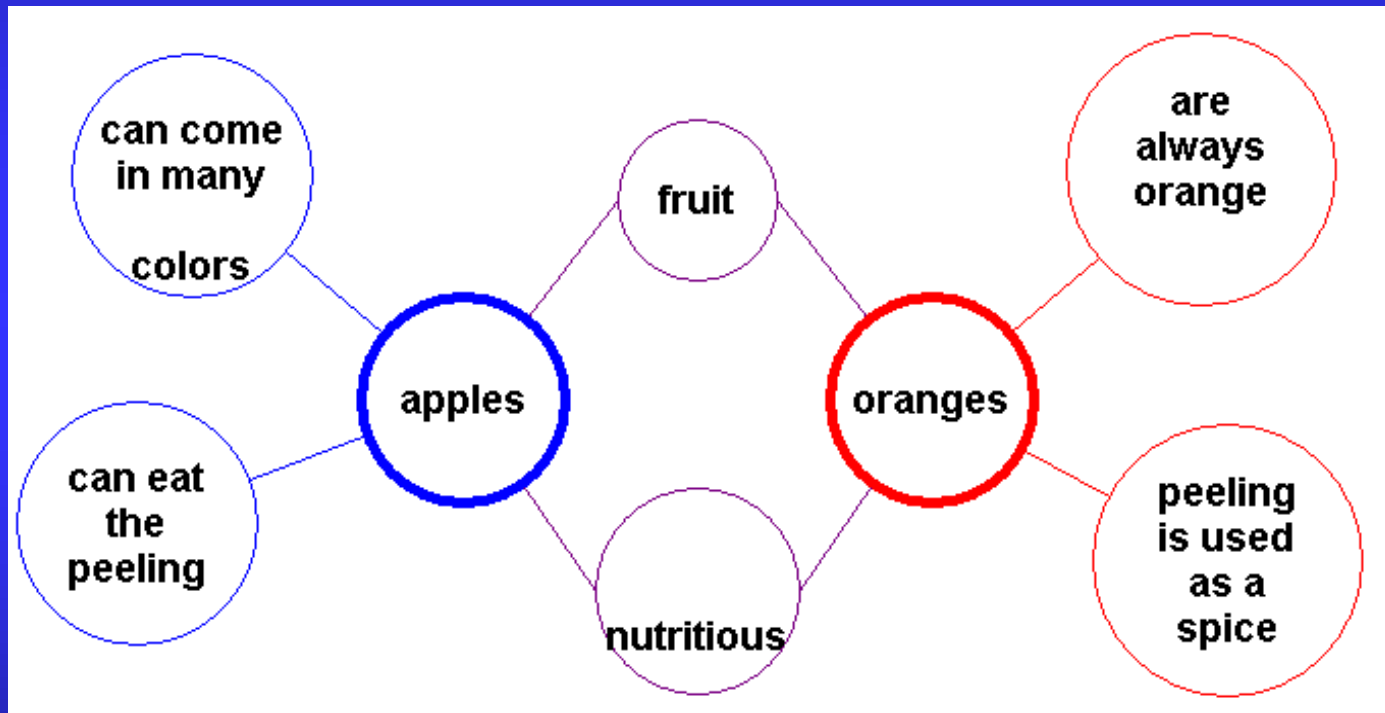
What are the similar and different qualities of these things? Which qualities do you value most? Why?

COMPARING AND CONTRASTING

Double
Bubble
Map

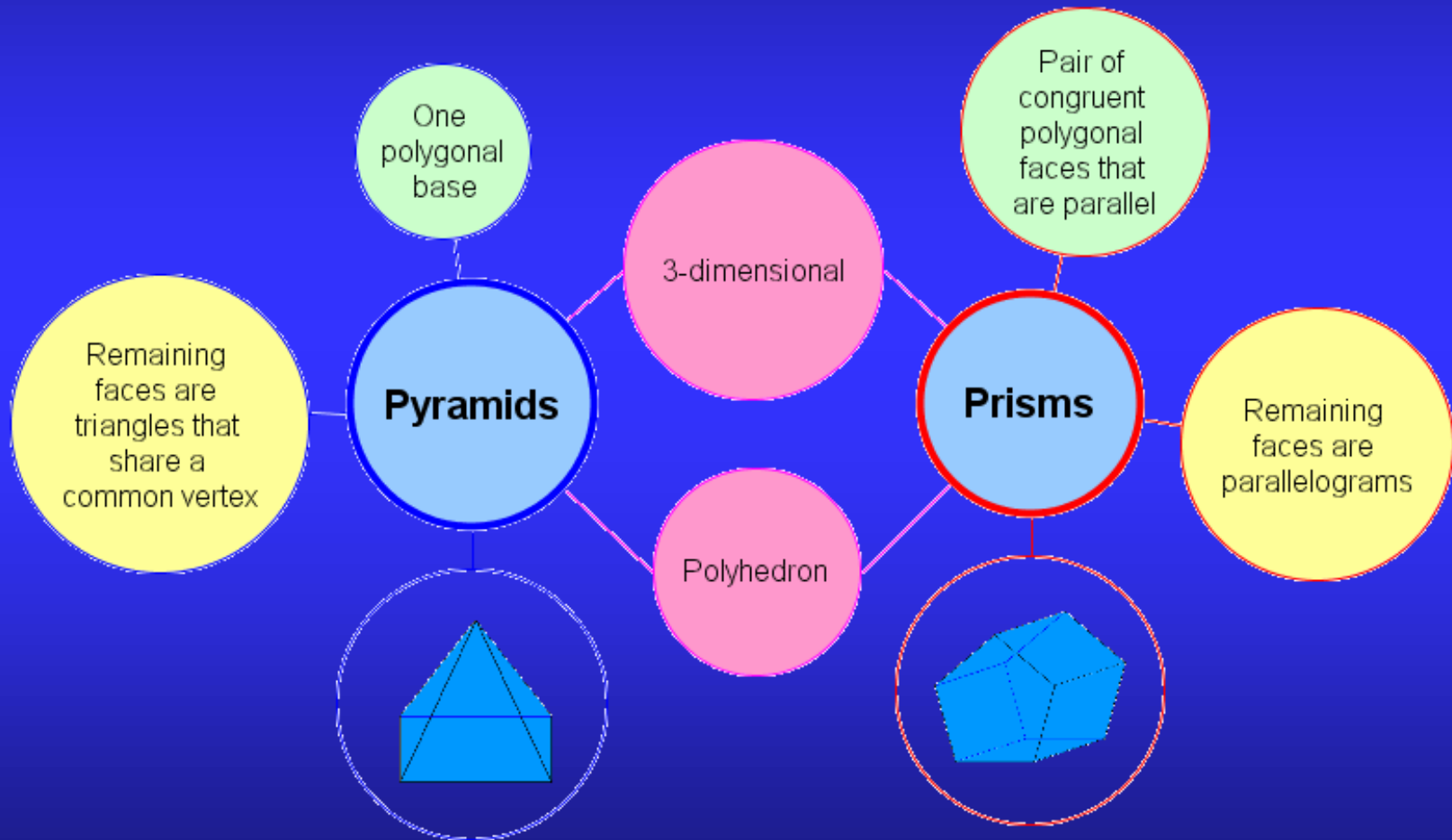


The Double Bubble Map



Comparing and Contrasting

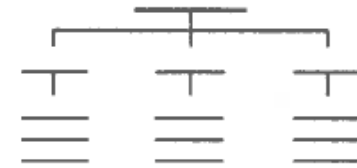
Comparing enhances meaning



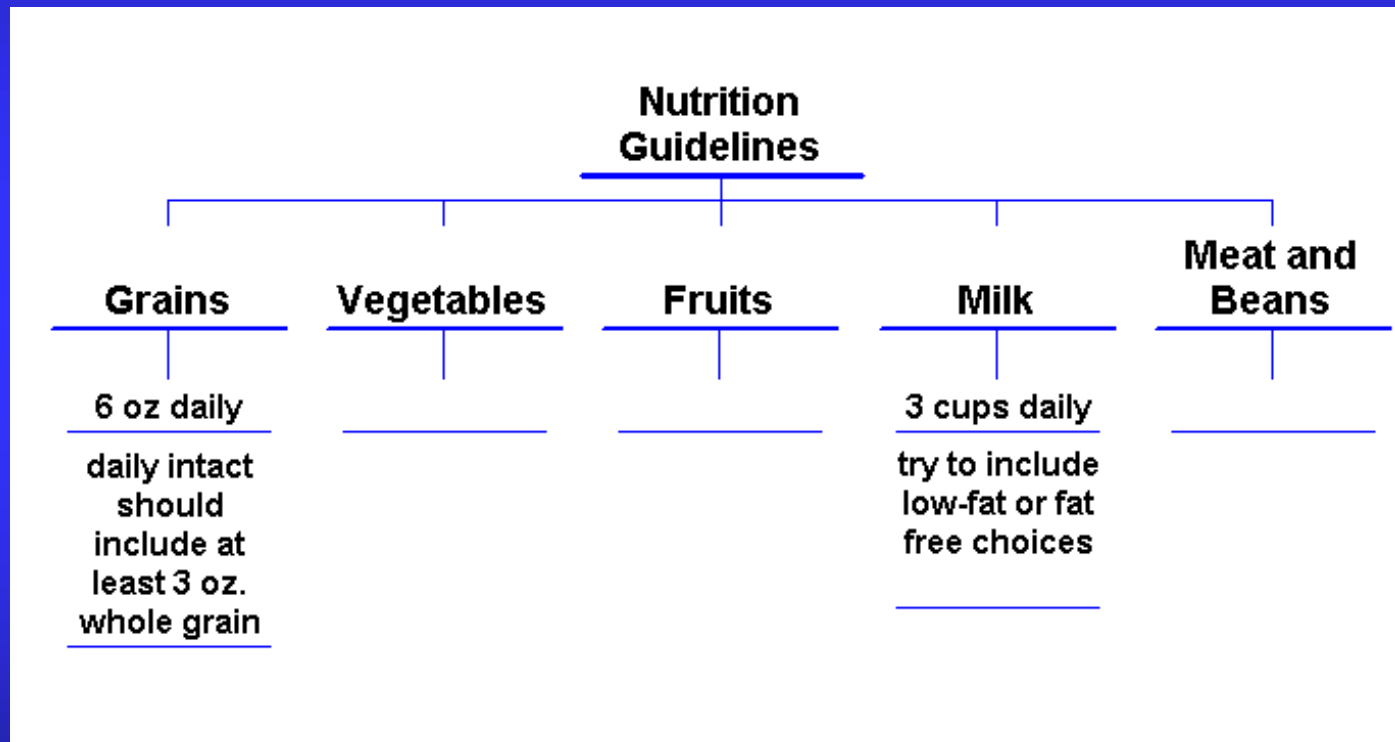
What are the main ideas, supporting ideas and details in this information?

CLASSIFYING

Tree
Map



The Tree Map

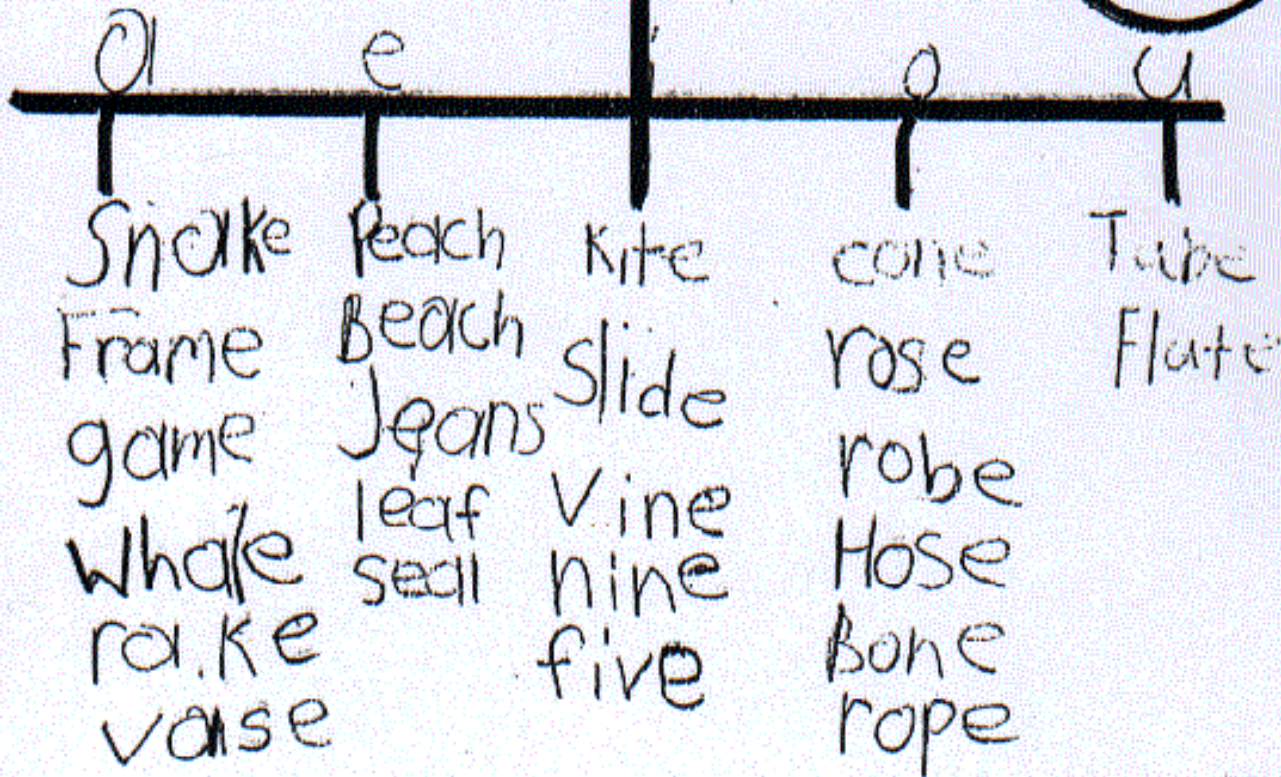


Classifying

Tree Map

Star

Vowels



Indians

Notes

Plains

The women and girls of these groups could setup the teepees quickly.

Long ago in all our wild lands there were no cities.

The men hunted for wild buffalo.

woodland

they live in the woods

They lived in a house called a wigwam

The old people told stories.

For north

On land they traveled in sleds pulled by husky dogs

In the long dark winters they sat on their sleeping shelves inside their warm sod or snow houses.

The burned whale blubber for light.

Northwest Coast

The hat for well s.

They did wdes.

They did use leg des.

Southwest

they built their homes on top of a cliff.

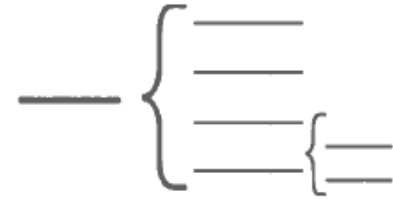
They ate corn, beans and squash.

The small girls and boys got sick.

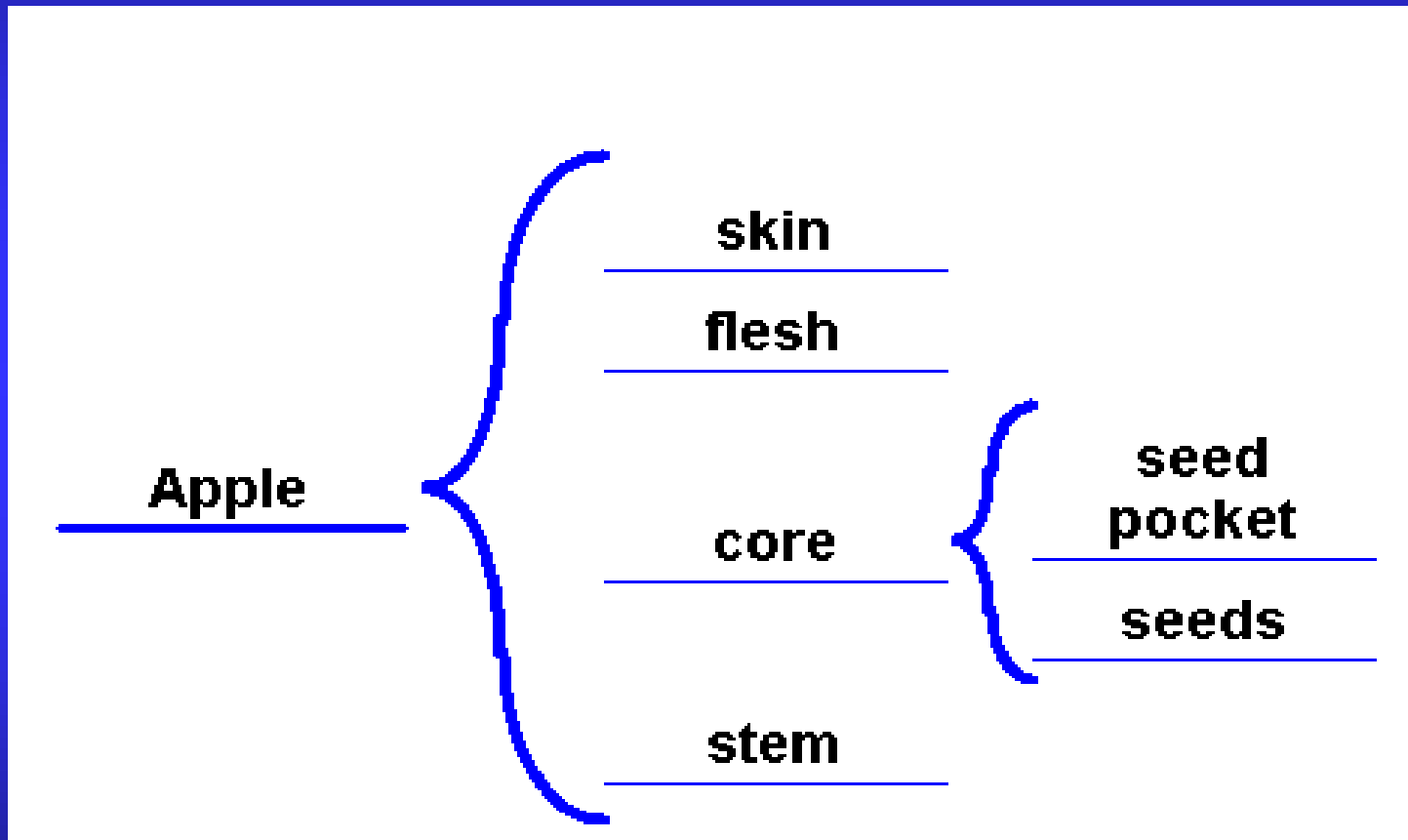
What are the component parts and subparts of this whole physical object?

PART-WHOLE

Brace
Map

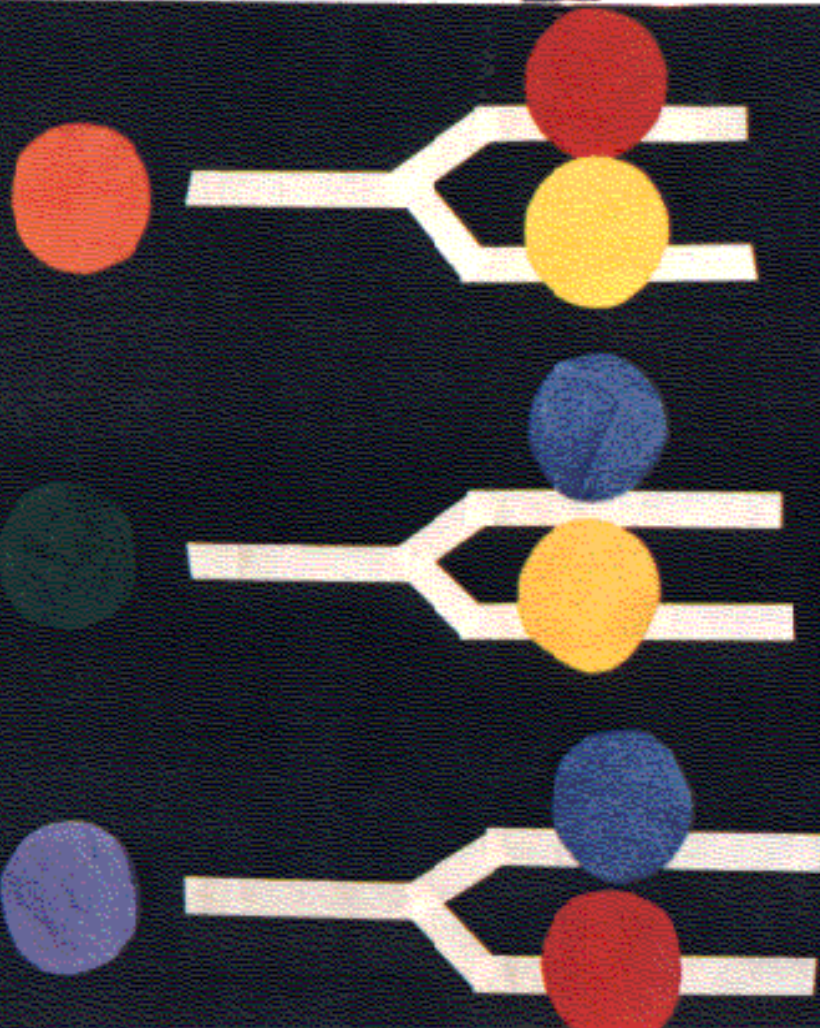


The Brace Map



Whole to Parts

Can you mix the
correct formula?



1 1'94

Different Ways to Write and Show
Hundreds Tens and Ones

Veachara

243



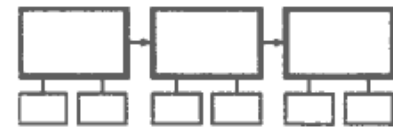
Hundreds	Tens	Ones
2	4	3

two hundred forty-three

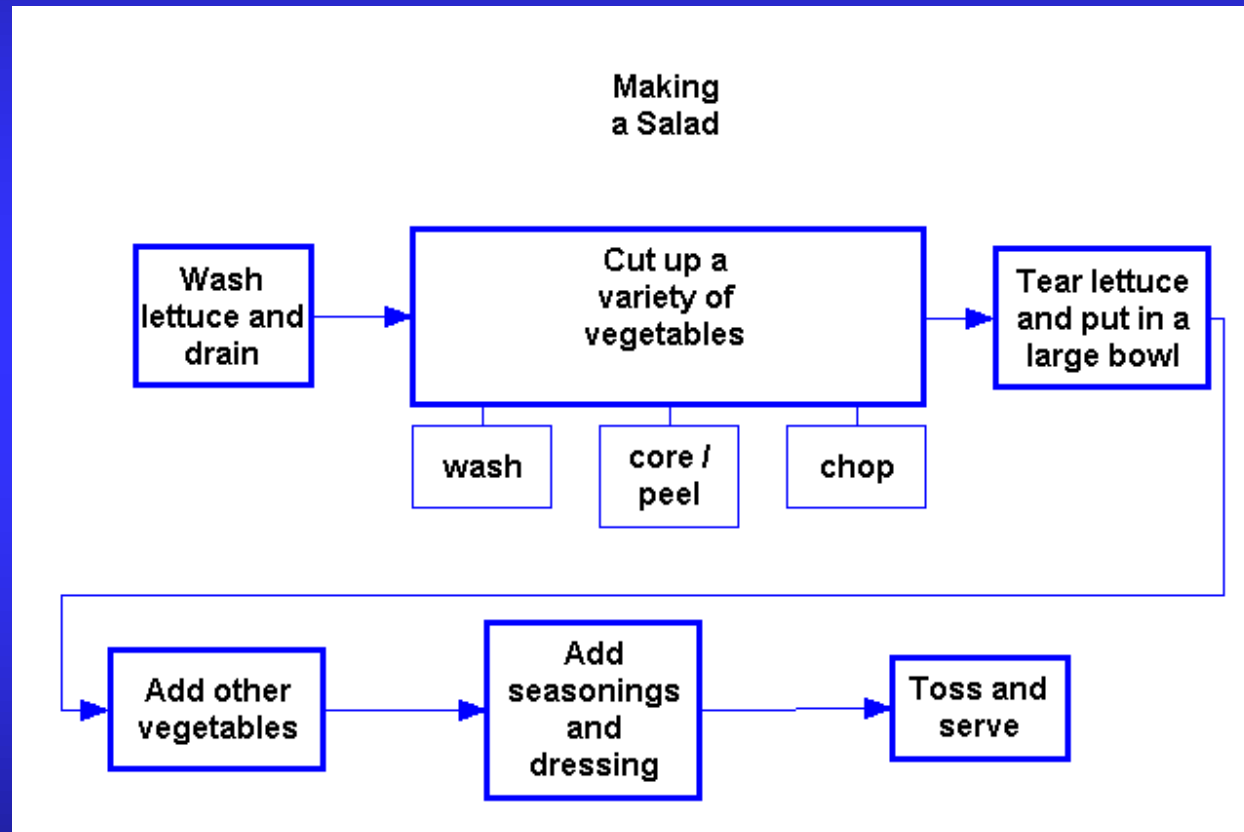
What happened? What is the sequence of events?
What are the substages?

SEQUENCING

Flow
Map



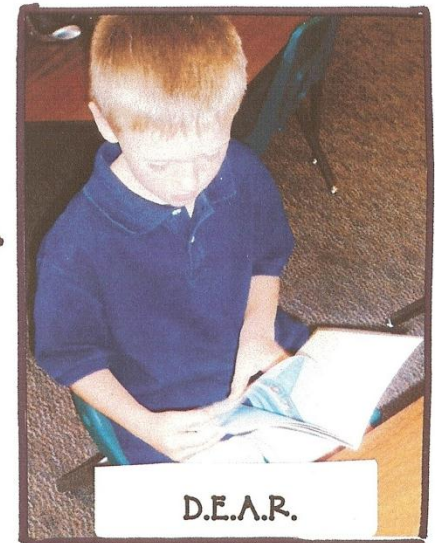
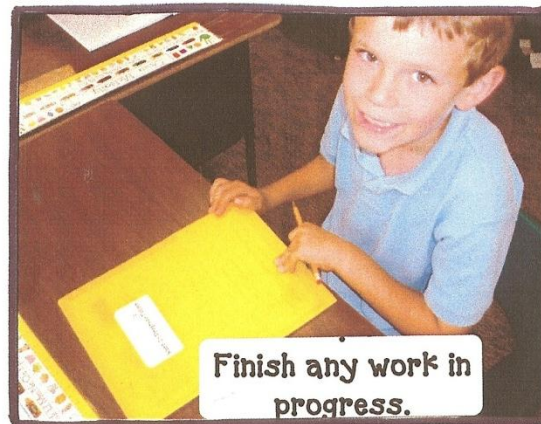
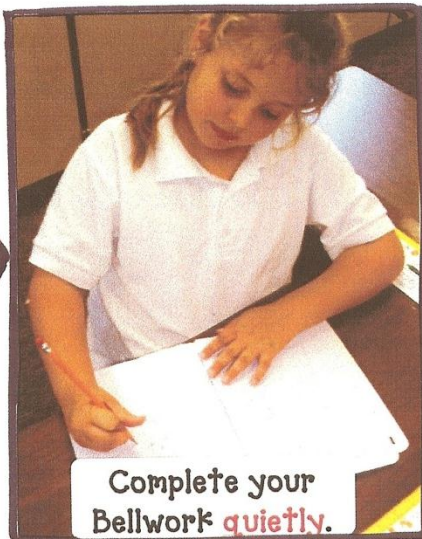
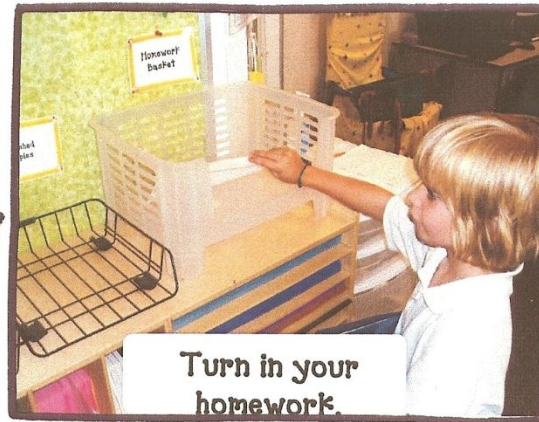
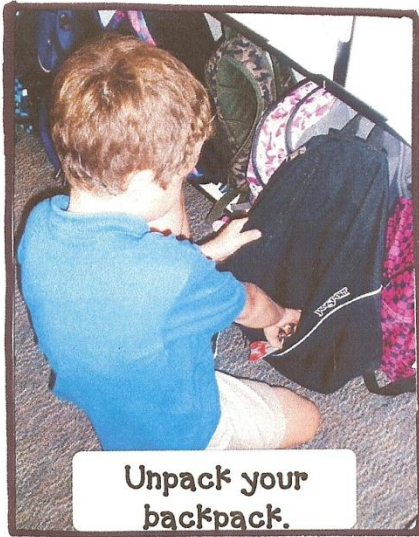
The Flow Map



Sequencing

Our Morning Routine

Copper Ridge Elem.
Scottsdale USD 2nd Grade



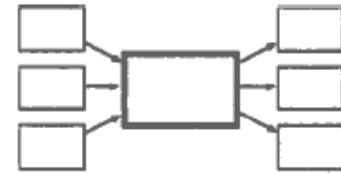
Liliana



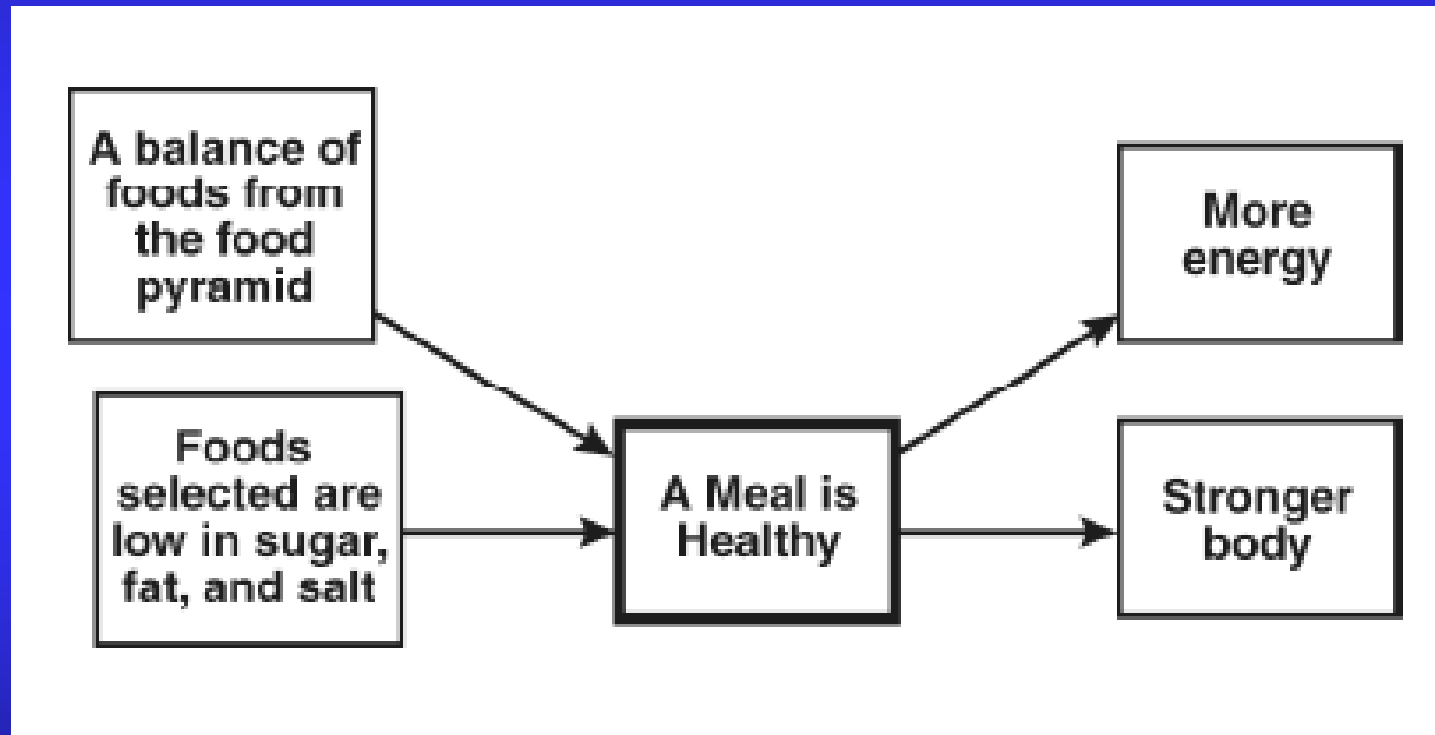
What are the causes and effects of this event?
What might happen next?

CAUSE AND EFFECT

Multi-Flow
Map



The Multi-Flow Map

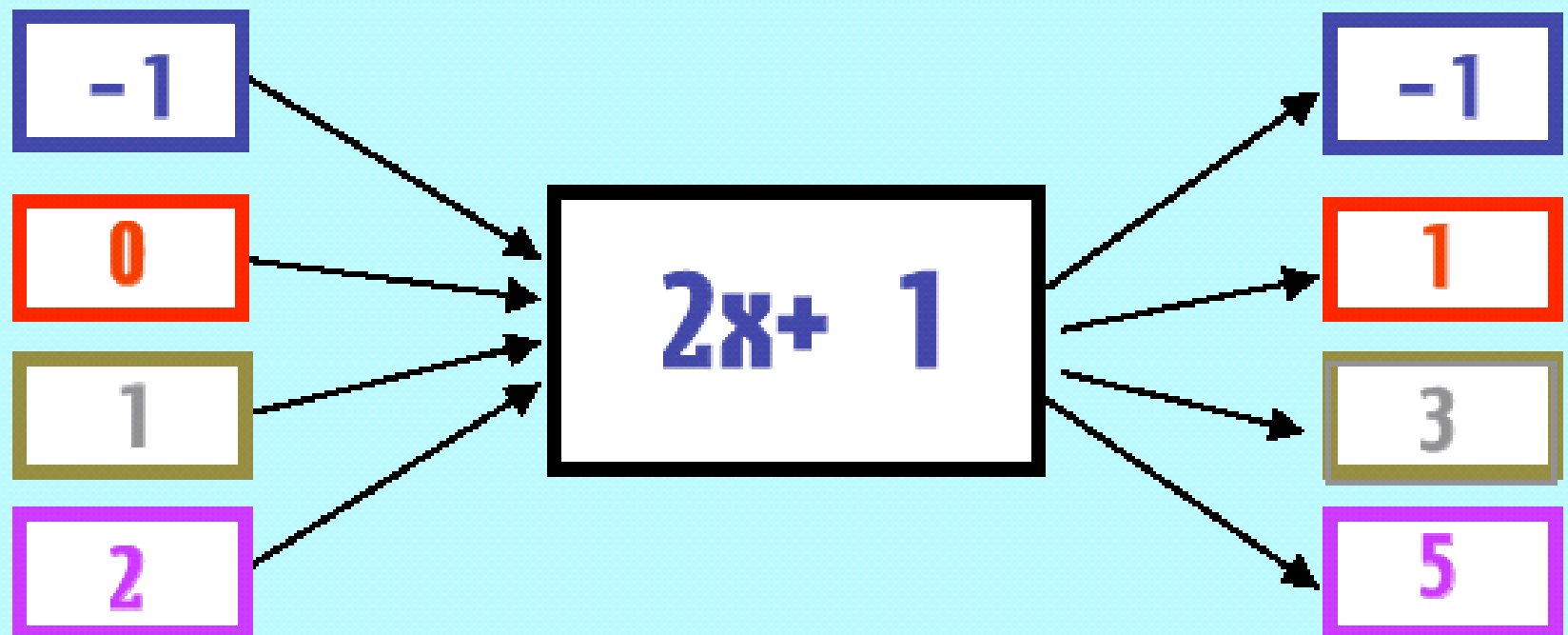


Cause and Effect

Function Machine

If $x = \{-1, 0, 1, 2\}$

Then $y = \dots$



Observations from our experiment

**The Lima
Bean Plant
Grows**



Observations from our experiment

**What if the
lima bean
plant
doesn't get
sunlight.**

An empty rectangular box with a blue border, intended for an observation.An empty rectangular box with a blue border, intended for an observation.An empty rectangular box with a blue border, intended for an observation.An empty rectangular box with a blue border, intended for an observation.

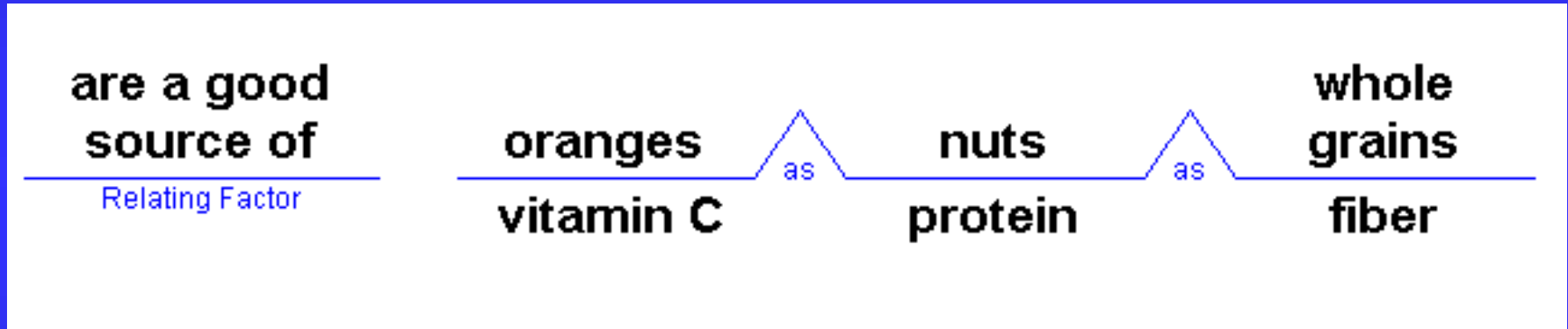
What is the analogy being used? What is the guiding metaphor?

SEEING ANALOGIES

Bridge
Map



The Bridge Map



Seeing Analogies

APR 23 1997



rain



sun

AS



water



light

relating factor:

gives

Jasmin

How are fine artists alike?

Create

Relating Factor

artists

as

musicians

as

authors

paintings

songs

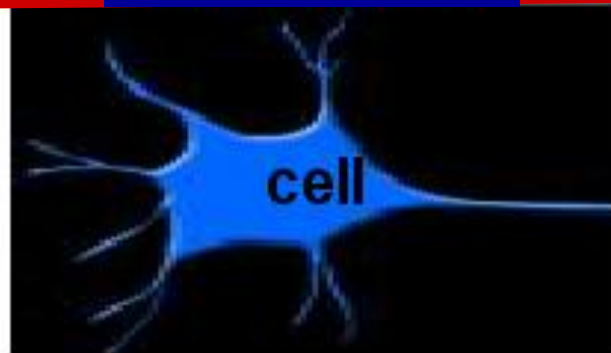
stories

powers

Relating Factor



mitochondria



cell

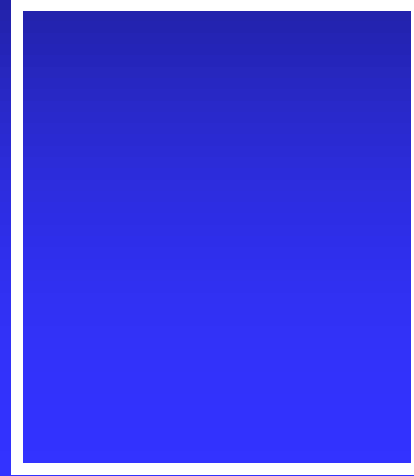


as



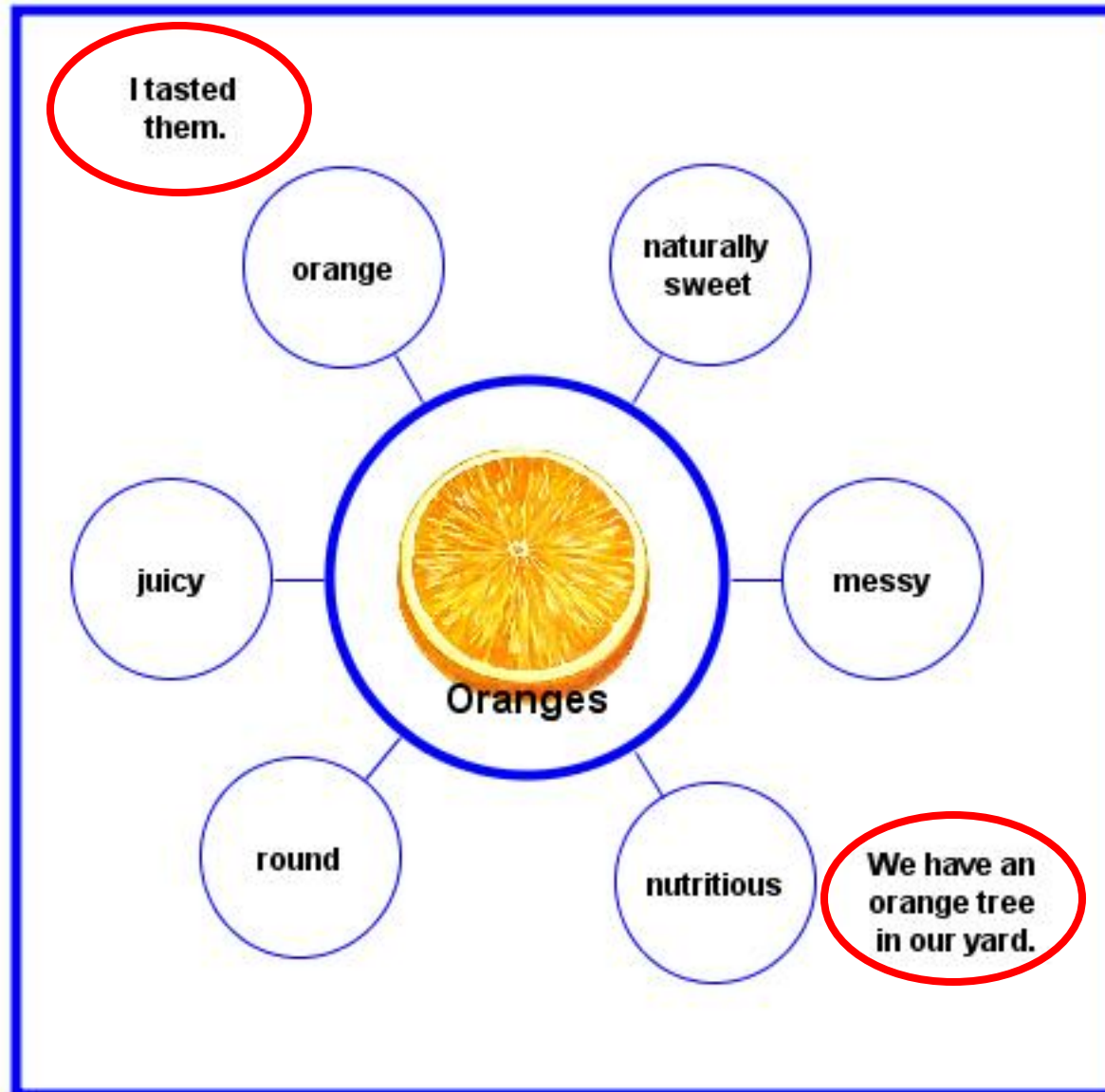
house

Adding a Frame of Reference



- How do you know what you know about this topic?
- Did your information come from a specific source?
- Is this information being influenced by a specific point of view?
 - Who could use this information?
 - Why is this information important?

Adding a Frame of Reference



Adding a Frame of Reference

