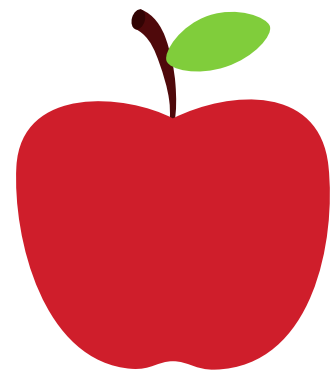
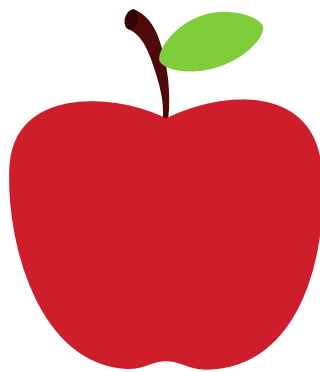
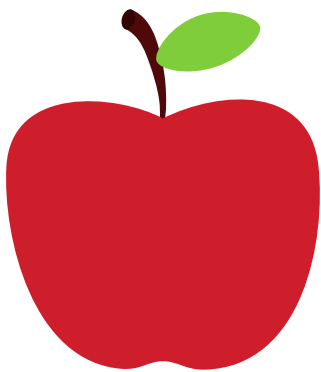

All About Apples

A multidisciplinary
unit about apples



By: Danielle from
A Sprinkle of Joy
www.asprinkleofjoy.com

Hello!

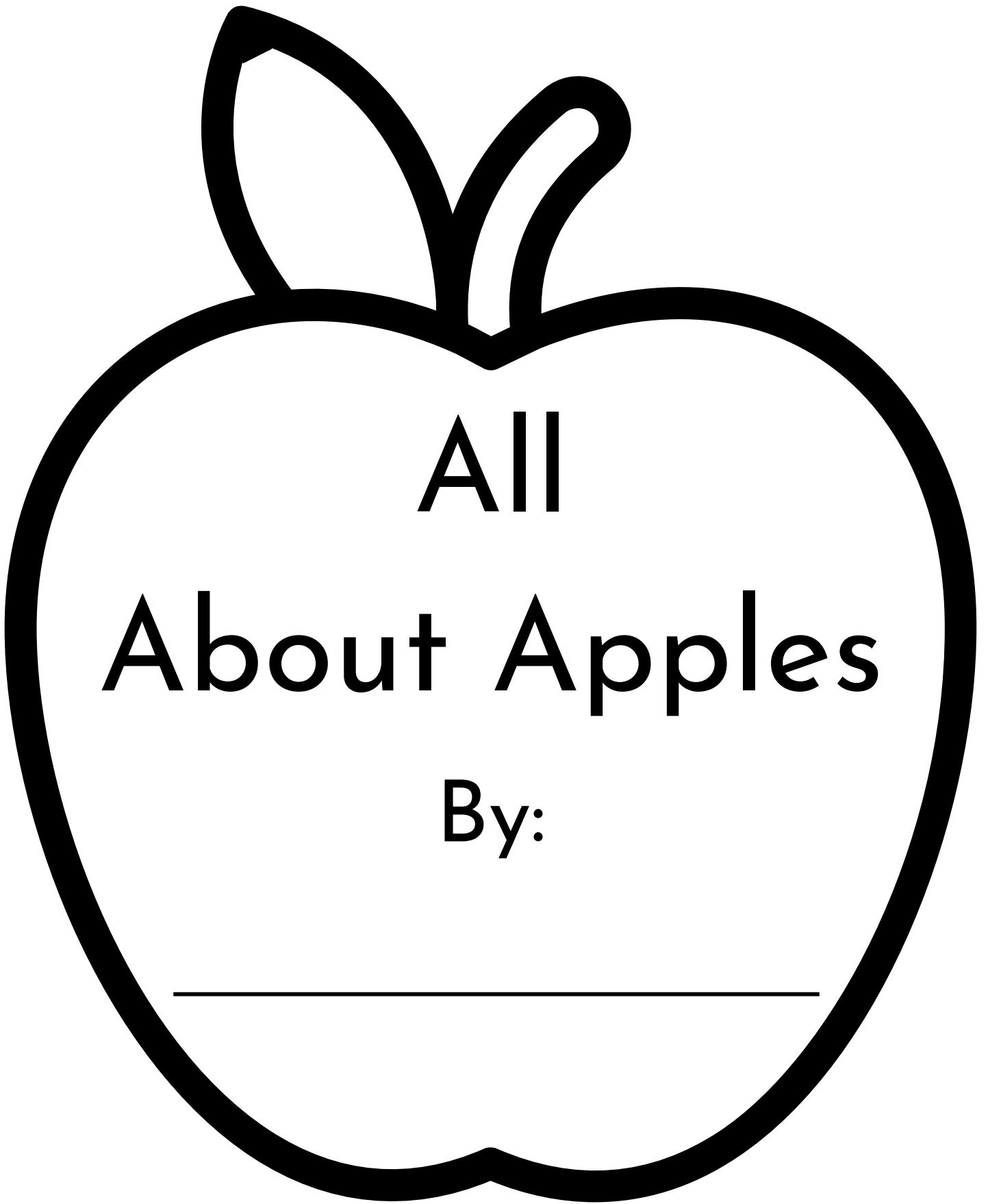
Thank you for taking the time to check out my All About Apples Unit. Perhaps you are like me, a mother who suddenly finds herself needing to homeschool. Or maybe you are a teacher looking for some fun fall related activities.

As a former teacher, I knew I wanted to make sure what ever I was doing alligned with the Common Core and Michigan Benchmarks, so each lesson has those listed.

I hope you find these lessons fun and helpful.

List of lessons

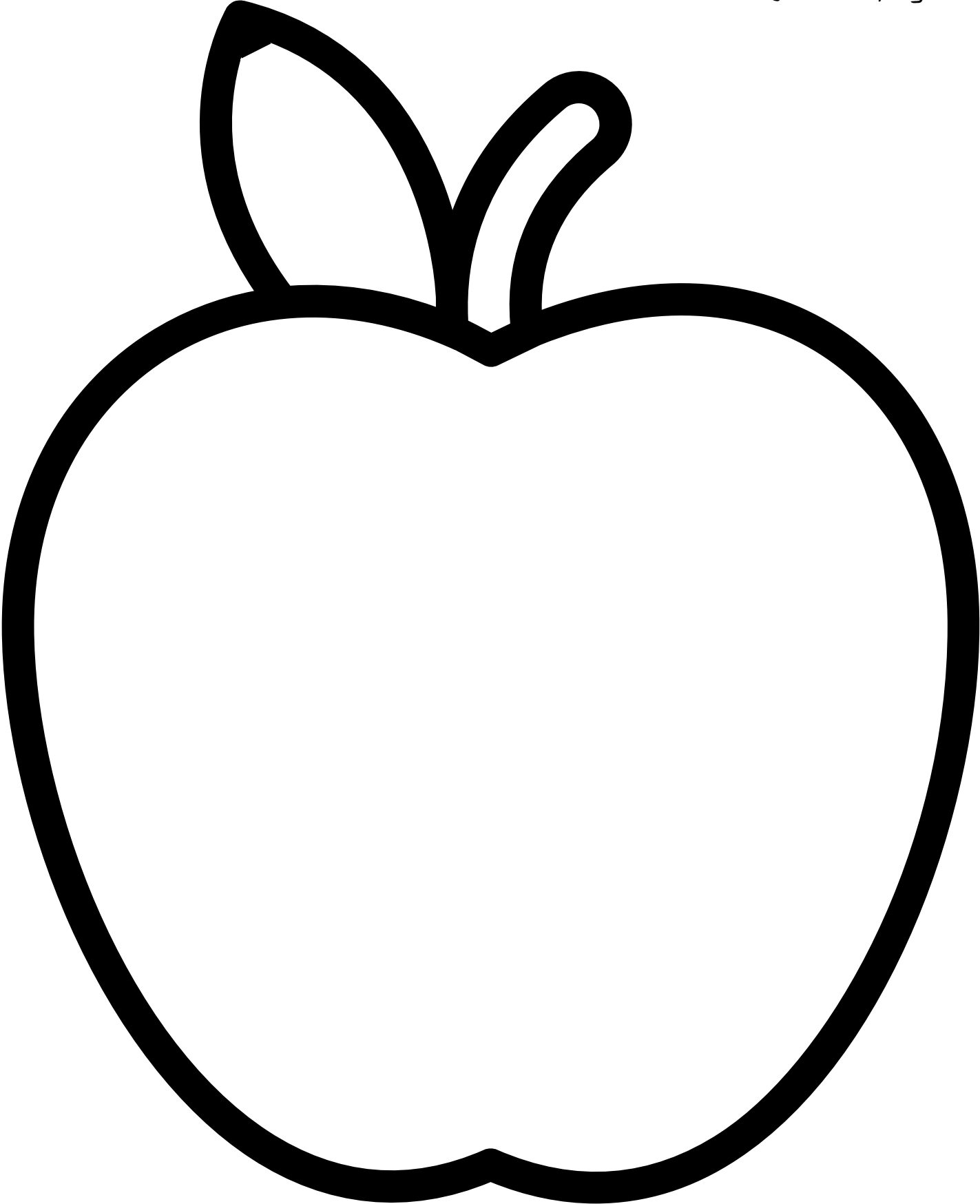
1. What apples need to grow
2. life cycle of an apple
3. parts of an apple blossom
4. pollination #1
5. pollination #2
6. pollination #3
7. pollination #4
8. odd and even
9. map the orchard
10. building shapes
11. story problems
12. vowel team sort
13. how to make an apple pie writing
14. money match
15. 100s chart problems
16. base ten apples
17. equivalent equations
18. opinion piece: best part of the orchard

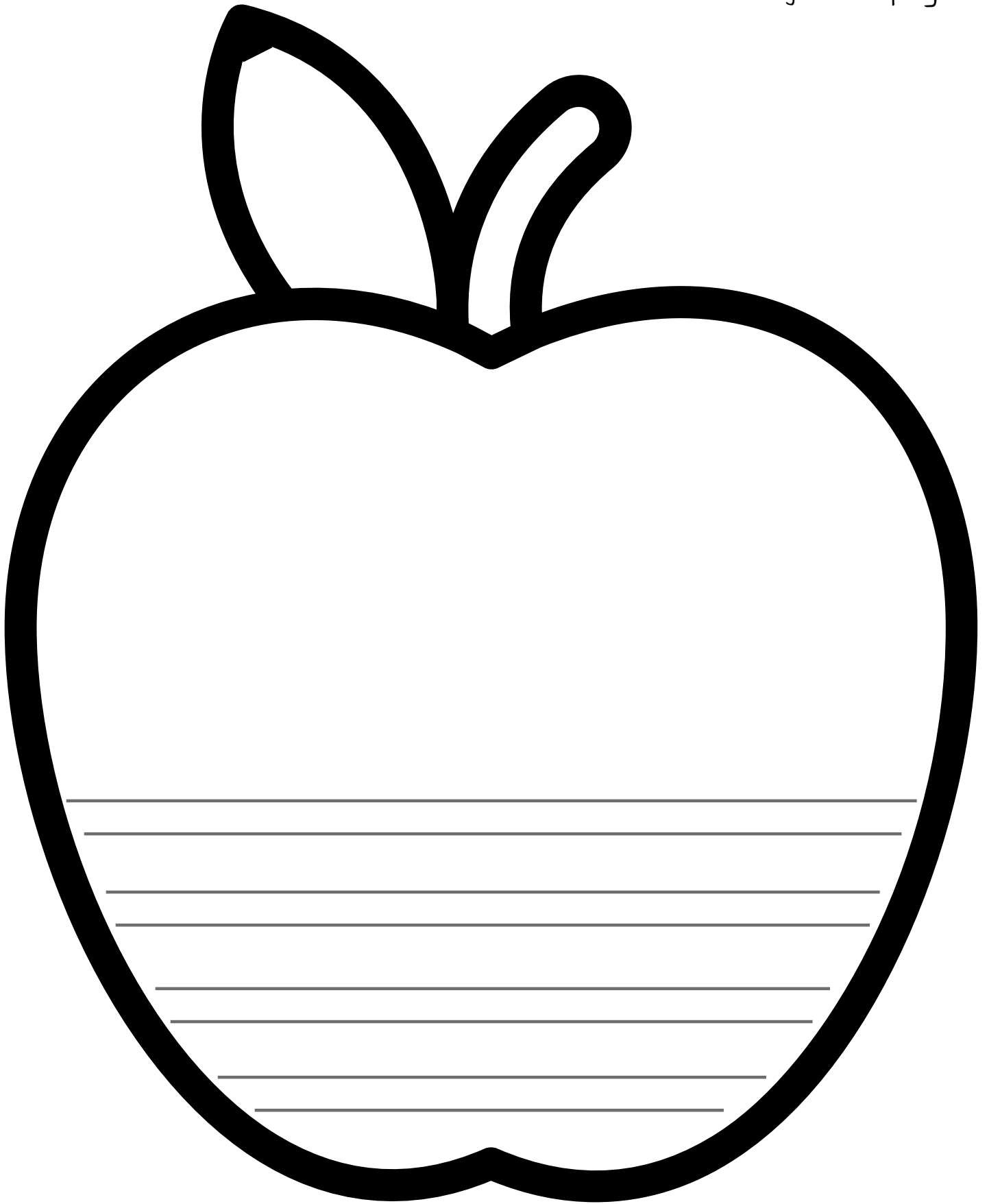


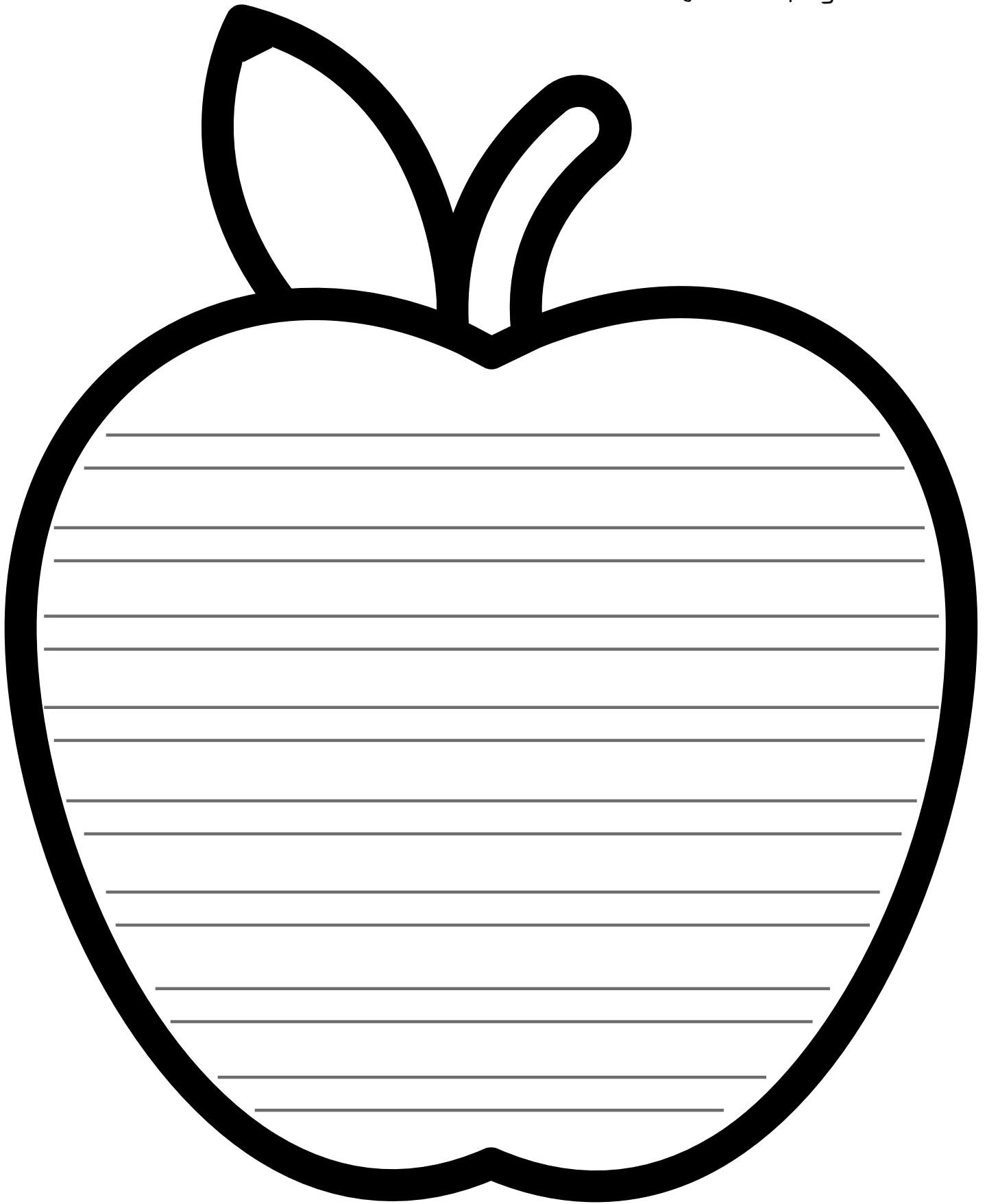
All

About Apples

By:



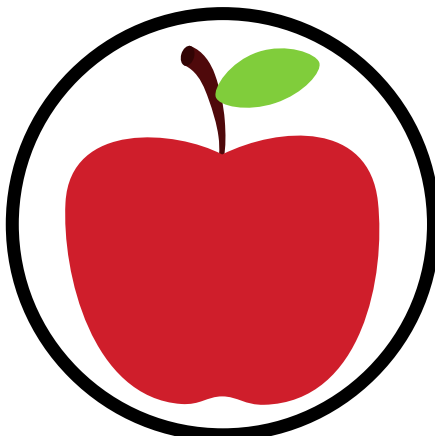
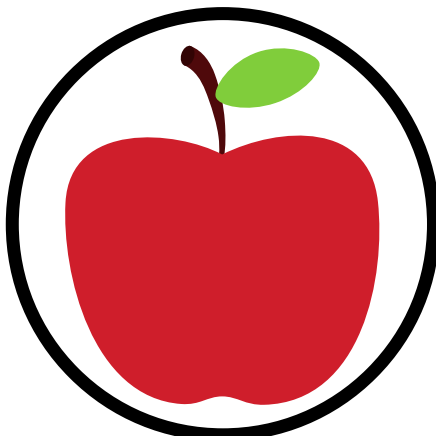
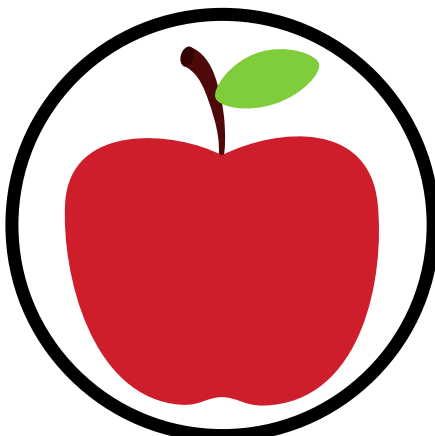
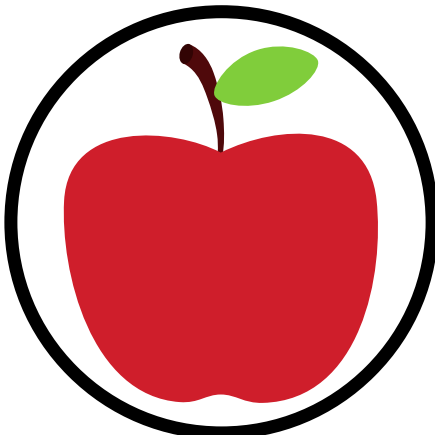
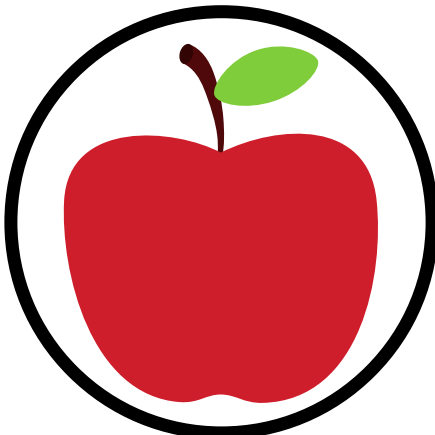
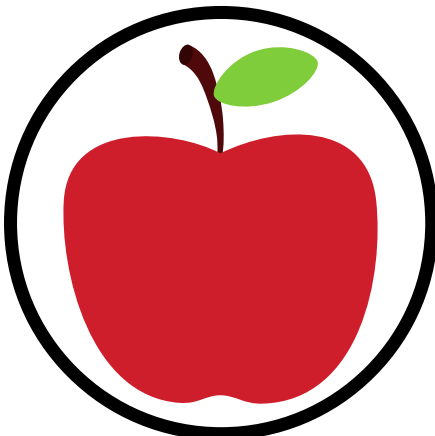
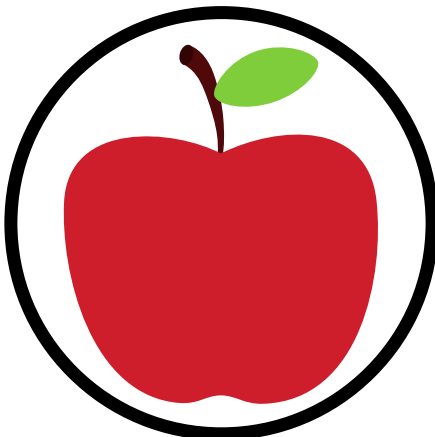
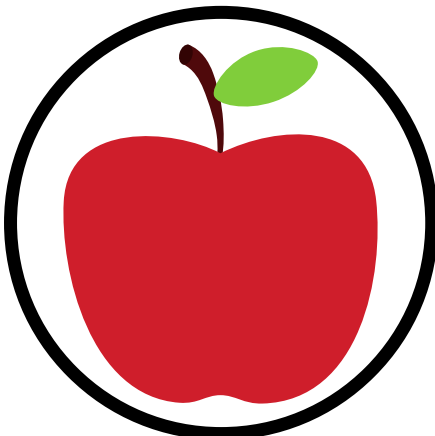
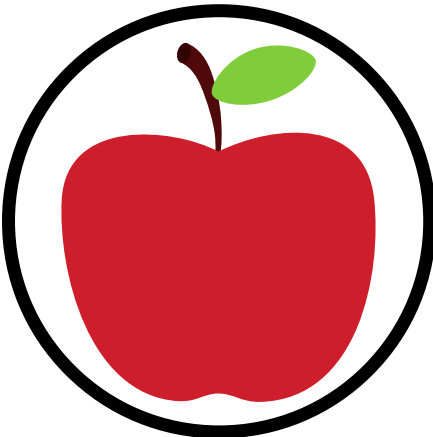
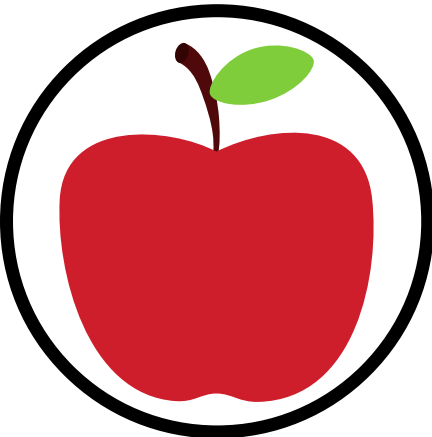
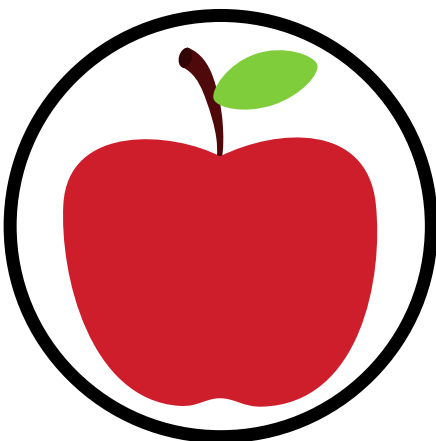




basket of apples



blank apples





place value mat

| | |
|--|-----------------|
| | hundreds |
| | tens |
| | ones |

lesson: What do apples need to grow?

objective: determine if plants need sun and water

overview:

- read non fiction book on apples
- point out need for sun and water
- conduct an experiment in which you put seeds in three separate bags. Bag #1 just a seed, bag #2 seed, wet paper towel in the sun and bag #3 seed, wet paper towel in the dark
- Draw a picture and write a prediction
- Write results

materials:

- non fiction book
- 3 zip lock bags
- 3 seeds (green beans grow quickly)
- apple journal page

common core/ benchmarks

- Science: LS2-1
- Language Arts: RI.2.1, RI.2.2, RI.2.4-2.8, RF.2.4, W.2.7

lesson: Life cycle of an apple

objective: learn about the life cycle of an apple, and how long it takes to start producing fruit

overview:

- read non fiction book on apples, and discuss life cycle
- talk about how long it takes for apples to first start producing fruit
- discuss how the land changes when we plant trees. What are other ways we change the land?
- put pictures in the correct order and use the labels
- create life cycle book page (see directions on next page)

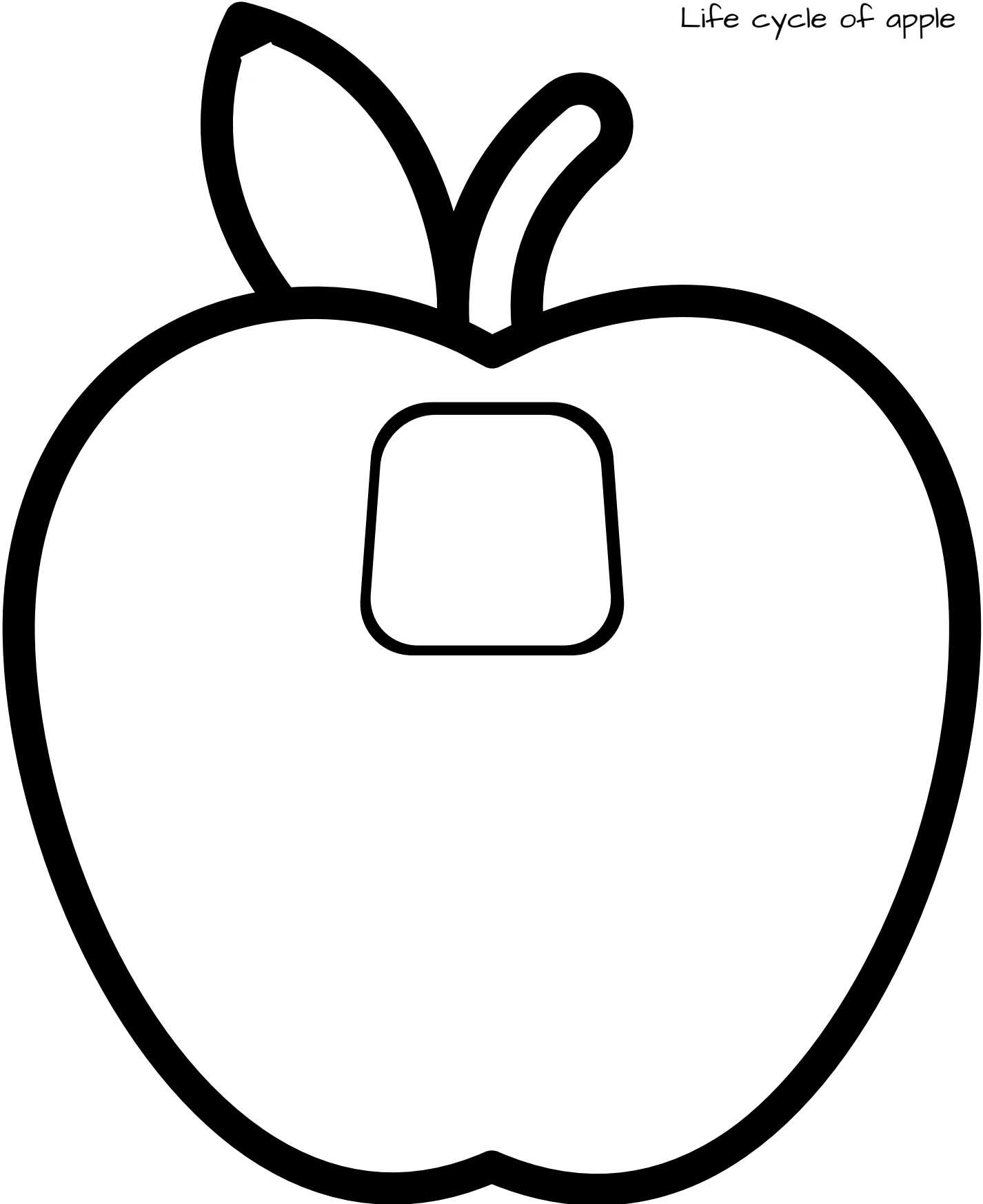
materials:

- real pictures of apple cycle
- life cycle of apple book page
- brad

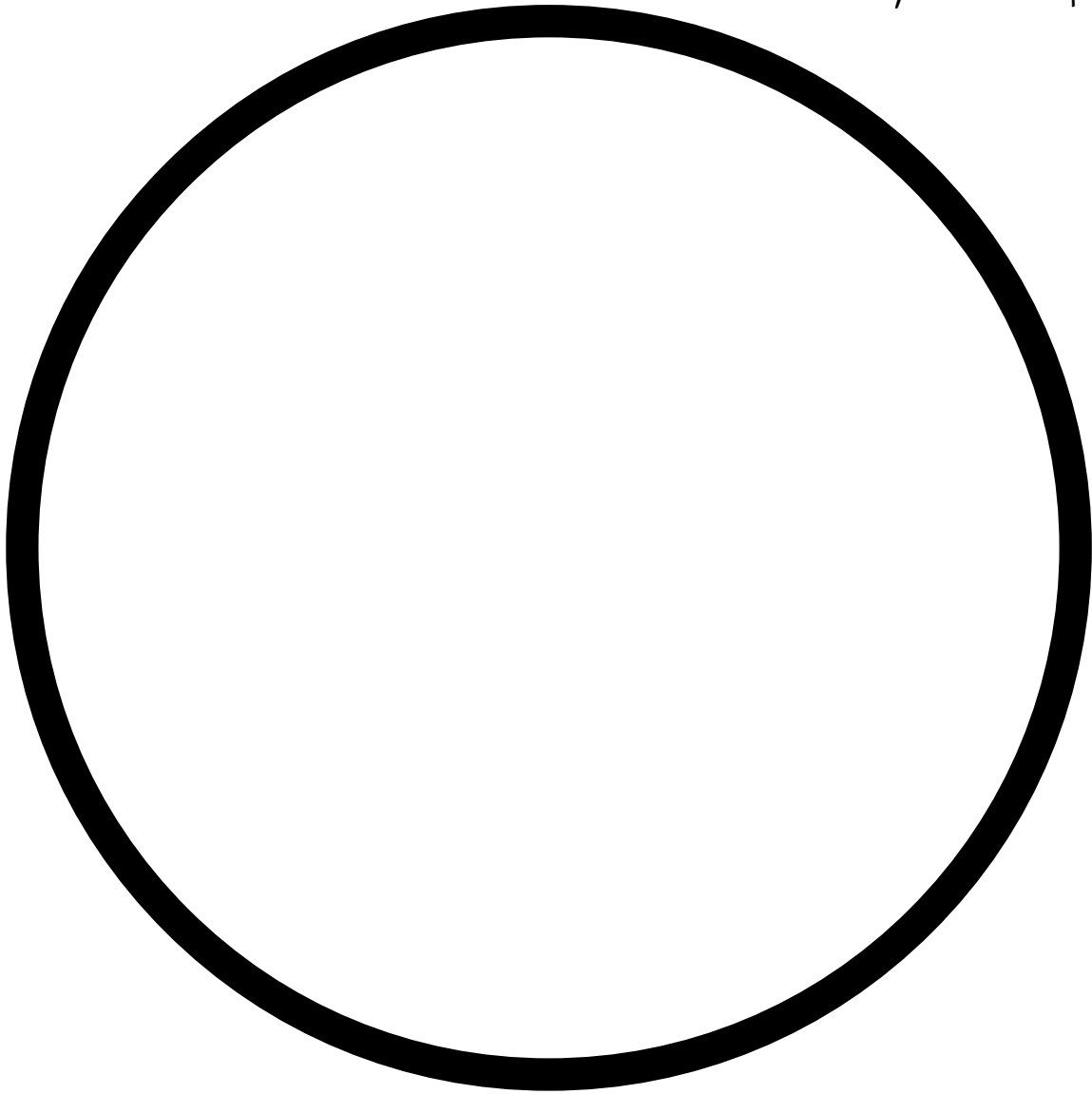
common core/ benchmarks

- Social Studies: G4.0.1
- Language Arts: RI.2.1, RI.2.2, RI.2.4-2.8, RF.2.4, L2.4
W.2.8

Life cycle of apple



Life cycle of apple



- Section circle into 6 parts (or however many phases you are using for the life cycle, younger children may use less).
- In each section have students draw and write a phase
- When done cut circle out. Cut window out of apple.
- Use a brad to attach the circle behind the apple.
- When you turn the wheel, it should show the phases of the life cycle

lesson: Parts of an apple blossom

objective: learn about the parts of a flower and the roll in pollination

overview:

- read a book about apples that shows the parts of the flower
- discuss how a flower needs to be pollinated for a fruit to grow
- dissect a flower (Lilies are a great choice)
- Create a paper model and label together
- create a page for the book- draw thier own flower.

materials:

- tracer for paper model as a group
- words for group modle
- words for paper model

common core/ benchmarks

- Science: LS2-2
- Language Arts: RI.2.1, RI.2.2, RI.2.4-2.8, RF.3d, L2.4
W.2.2

parts of a flower- words for
paper model

sepal

stem

style

ovary

filament

stamen

stigma

petal

sepal

stem

style

ovary

filament

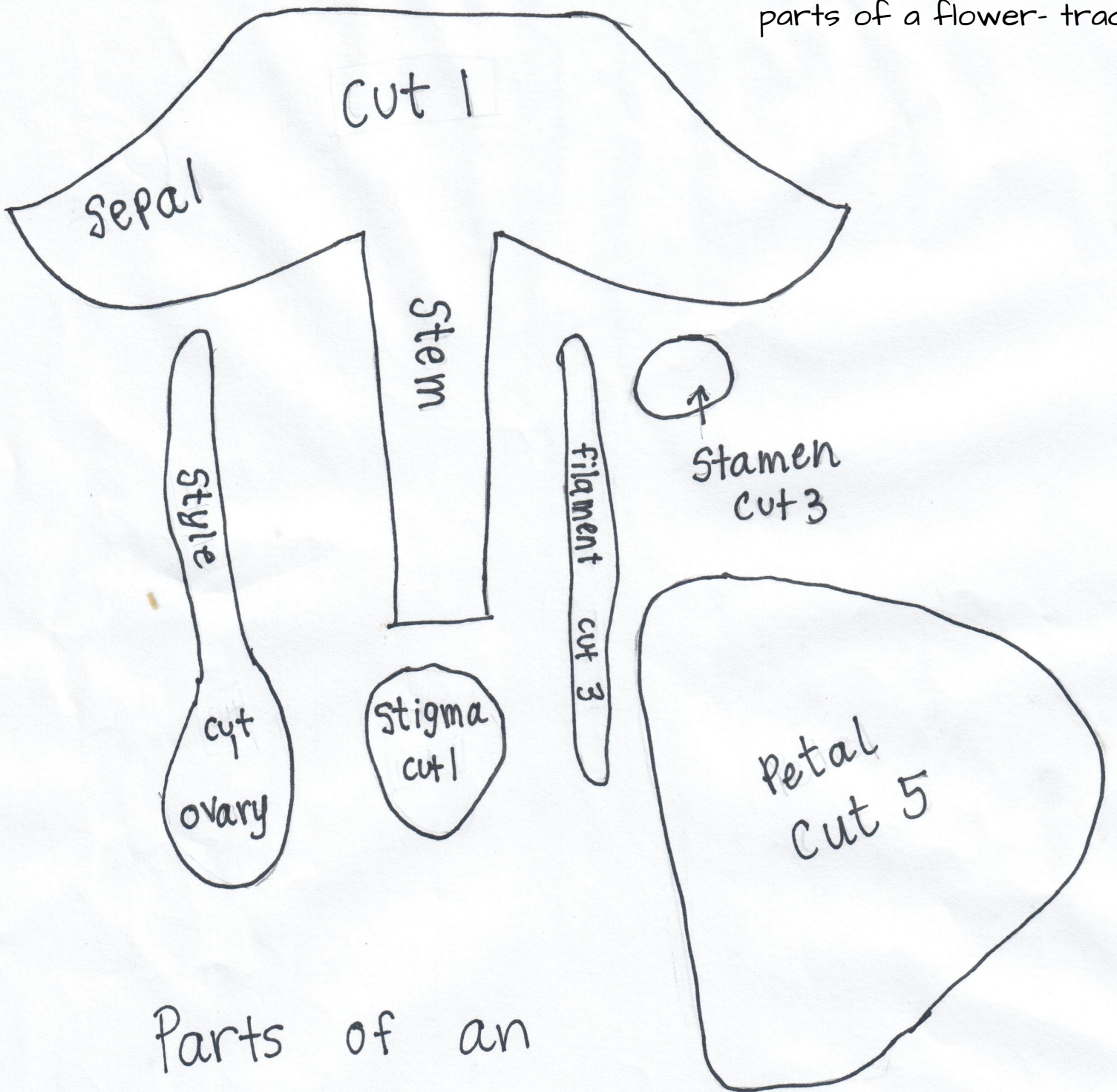
stamen

stigma

petal

parts of a flower- words for
journal page

parts of a flower- tracer



Parts of an
apple blossom

lesson:

Pollination #1

objective:

what is needed for pollination?

overview:

- read a book about pollination
- discuss that pollen needs to move from the stamen to stigma
- make a paper flower and use cheerios to show how pollen moves from stamen to stigma.
- Label the parts

materials:

- paper flower
- parts of a flower from parts of an apple blossom lesson
- cheerios

common core/ benchmarks

Science: LS2-2

Reading: RI 2.1, 2.2, 2.4-2.8, L2.4

lesson:

Pollination #2

objective: show how pollen is transferred by bees or butterflies

overview:

- review pollination and do paper flower model again
- crush cheetos in a bowl and mix some candy in. Have kids dig for candy (getting cheeto dust on their hands), then take candy from a paper towel (being sure to wipe a little on the towel).
- Discuss that like a bee, your hand got "pollen" on it, then it transferred to another "flower" to pollinate it

materials:

- cheetos
- candy
- bowl
- paper towel

common core/ benchmarks

Science: LS2-2

Reading: RI 2.1, 2.2, 2.4-2.8, L2.4,

lesson:

Pollination #3

objective:

measure length bee "flew"

overview:

- use ruler, paper clips and other objects to measure how far bee flew.
- be sure to discuss importance of writing units.

materials:

- ruler
 - paper clips
 - other objects to measure with
 - bee
- measurement sheet

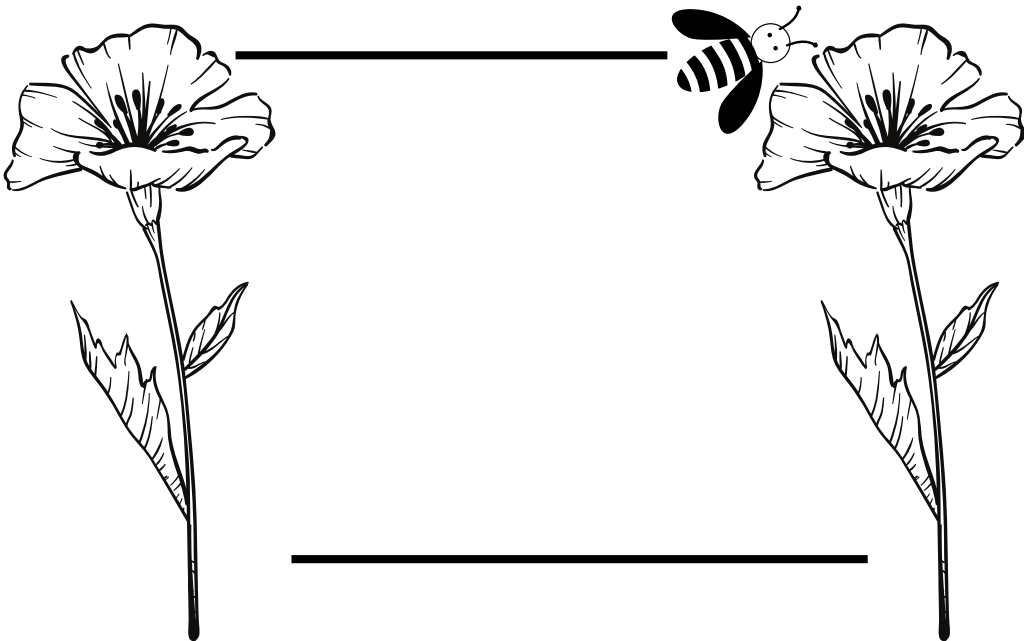
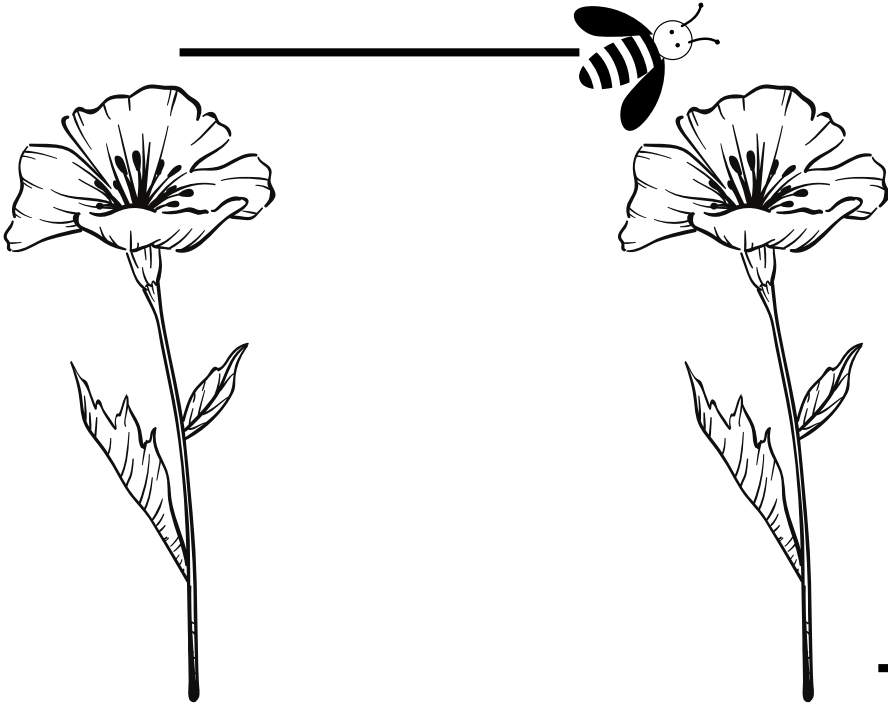
common core/ benchmarks

Science: LS2-2

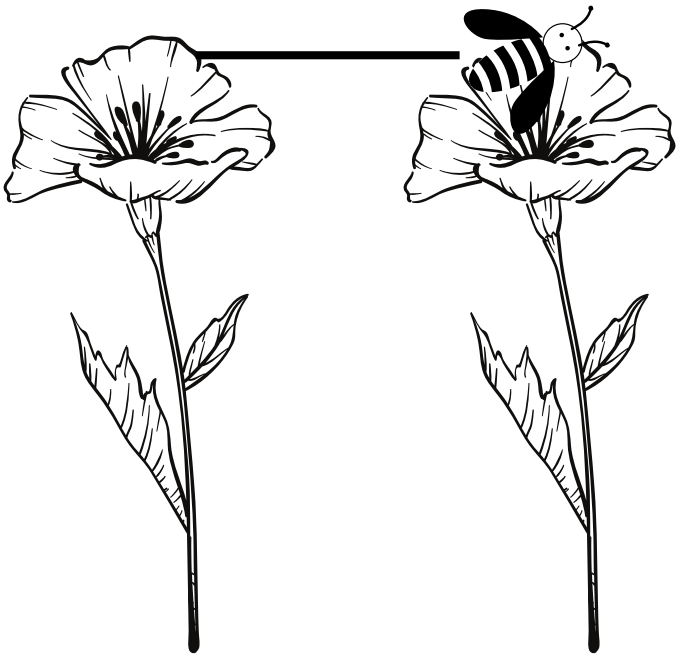
Reading: RI 2.1, 2.2, 2.4-2.8, L2.4

Math: 2.MD.1, 2.MD.2









lesson:

Pollination #4

objective:

write about pollination

overview:

- use lined journal page to write about pollination.
- Include words from parts of an apple blossom

materials:

- journal page
- words of parts of an apple blossom if needed

common core/ benchmarks

Science: LS2-2

Reading: W.2.2

lesson:

Odd vs. Even

objective:

sort odd and even numbers

overview:

- discuss that even #'s have a pair and odd numbers don't
- Learn poems: "even Steven thinks he is great, 0,2,4,6,8" "odd todd climbs a vine, 1,3,5,7,9"
- use counters (or cheerios, legos, anything really) to make groups that are even (show that everything has a pair) and odd.
- Sort apples onto trees

materials:

- counters (or other item to make into groups)
- paper apples
- tree (print two)-label one odd and one even

common core/ benchmarks

Math: 2.OA.3

lesson: map the orchard

objective: create a map of an orchard using symbols and a key

overview:

- look at a variety of maps
- notice the similarities (symbols, a map key, compass rose)
- talk about how many apple orchards grow other fruit or vegetables.
- Model drawing a map of a bedroom
- work together (if needed) to make a map of an orchard.

materials:

- different maps
- journal page (staple another piece of paper to create a pocket to put the map in.

common core/ benchmarks

social studies: G1.O.1, G4.O.1

lesson:

building shapes

objective:

recognize attributes of shapes

overview:

- build shapes with apple chunks and tooth picks (can be 2D or 3D shapes)
- draw on a white board (or piece of paper) the shapes drawn
- identify number of sides and vertices (faces if doing 3D shapes)

materials:

- apple chunks
- toothpicks
- paper or white board

common core/ benchmarks

math: 2.G.1

lesson:

story problems

objective: solving story problems (2 part and ones with unknown addend)

overview:

- solve one and two step story problems with unknowns in all positions.
- Use story problem sheet to help show how to solve problems
- Use base ten blocks to show answers
- tell if the answer is odd or even

materials:

- laminated one part story problem sheet
- laminated two part sheet
- story problem card

common core/ benchmarks

math: 2.OA.1, 2.OA.3, 2.NBT.1

what do we need to find out?

?

part one

?

part two

picture

picture

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

$$\underline{\quad} \bigcirc \underline{\quad} = \underline{\quad}$$

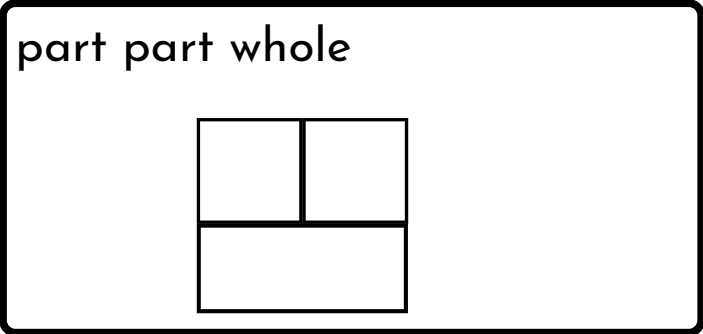
final answer

My picture

My equation

_____ ○ _____ = _____

odd
or
even



my answer

Base ten blocks

Autumn ate 5 apples.

Annabelle also ate some apples. All together they ate 12 apples. How many apples did Annabelle eat?

Lucy picked 10 apples from a tree. David picked 12 apples from a tree. How many apples did they pick all together?

A tree had 23 apples on it. Some apples fell off the tree. Now there are 16 apples left. How many apples fell off?

A bee pollinated some apple blossoms. A butterfly pollinated 5 apple blossoms. All together 12 apple blossoms were pollinated. How many did the bee pollinate?

Marco brought 7 red apples to school. Ava brought 9 green apples. How many apples did they bring all together?

Annabelle picked some apples.
Autumn picked 7 more than
Annabelle. She has 10 apples.
How many apples did they
pick all together?

Farmer Matt planted some
apple trees. Farmer Sarah
planted 3 more than farmer
Matt. She planted 5 trees.
How many trees did they plant
all together

Lelia picked some apples.
Tony picked 4 less than Lelia.
He has 6 apples. How many
apples did they pick all
together?

Some students brought green
apples to school. Other students
brought 7 more green apples than
red. There were 12 green apples.
How many apples all together.

A bee pollinated some apple
blossoms. A butterfly pollinated
5 more than the bee. All
together 12 apple blossoms were
pollinated. How many apple
blossoms were pollinated total?

lesson: Farmer's Market

objective: practice with money

overview:

- set up a pretend farmers market.
- have a price sheet with amounts for different items.
- practice counting money and making change
- Discuss why farmers have farmers markets, and how they meet business and economic needs.

materials:

- variety of fake food (or you could use real food)
- play money (or real money)
- price sheet

common core/ benchmarks

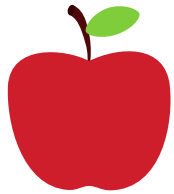
Math: 2.MD.8

Social studies: E.1.O.1-0.4

Farmer's Market Prices

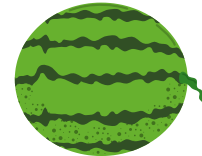
apple

25¢



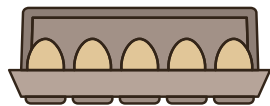
watermelon

\$1.25



eggs

75¢



banana

55¢



pumpkin

\$1.45



donuts

60¢



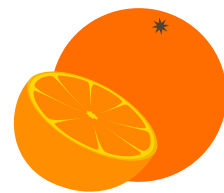
tomato

40¢



orange

30¢



Farmer's Market Prices

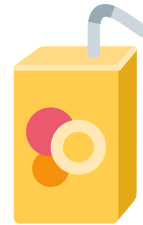
milk

65¢



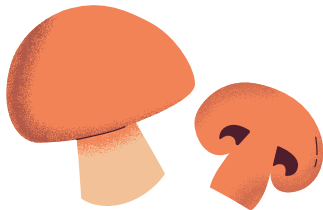
juice

\$1.05



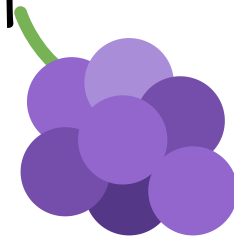
mushrooms

70¢



grapes

50¢



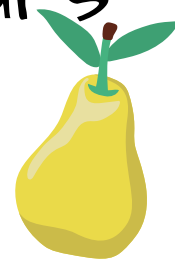
ice cream

\$1.25



pears

40¢



lettuce

70¢



honey

\$1.75



lesson: Vowel Team Sort

objective: sort words by vowel team:
ai/ay, ea/ee/ey, oa/oe/ow,

overview:

- discuss when two vowels are next to each other they make one sound.
- make a chart listing ai/ay (and on separate days ea/ee/ey, oa/oe/ow) words.
- write ai/ay words on apples, with the ai and ay missing.
- write ai/ay on apple baskets and sort words into the correct place.

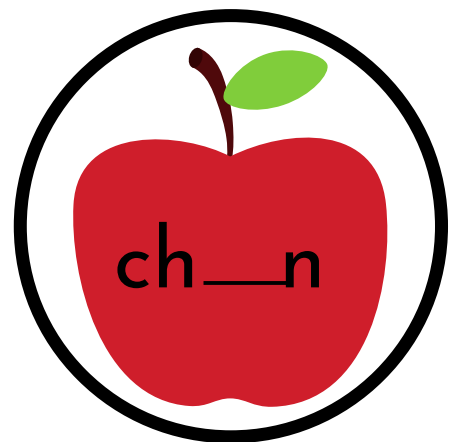
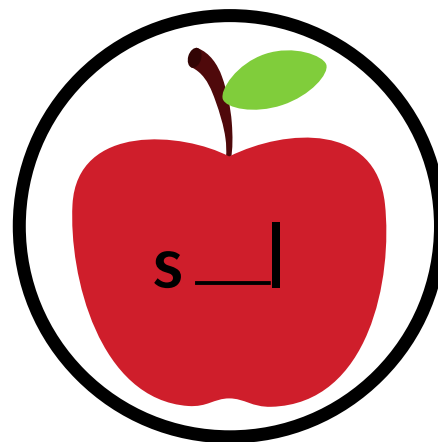
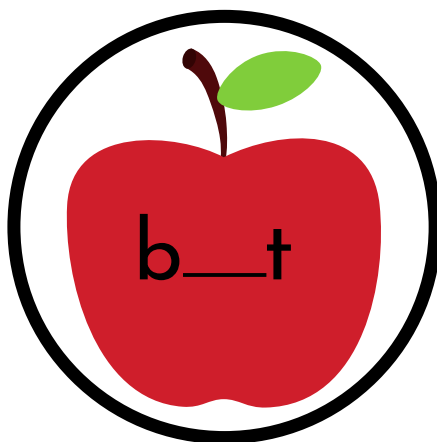
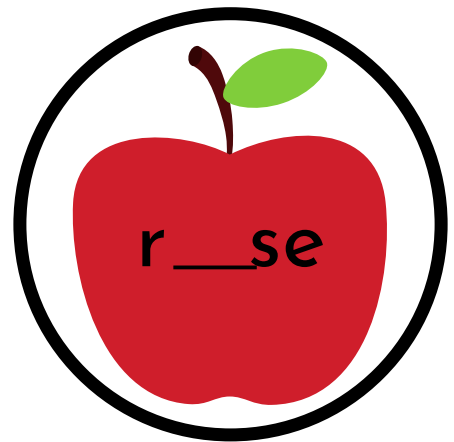
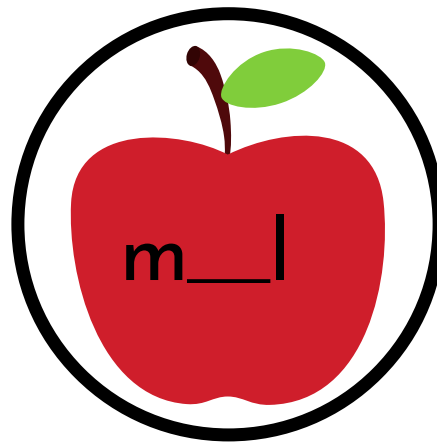
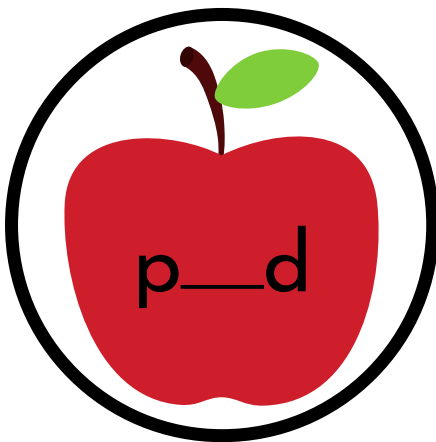
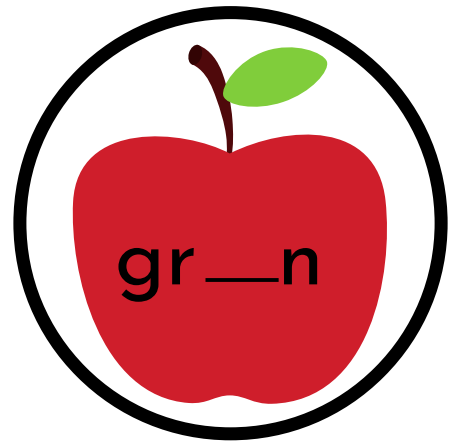
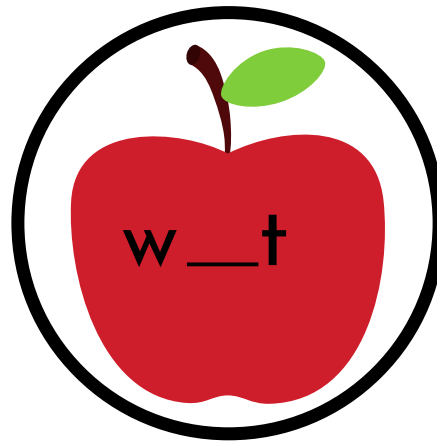
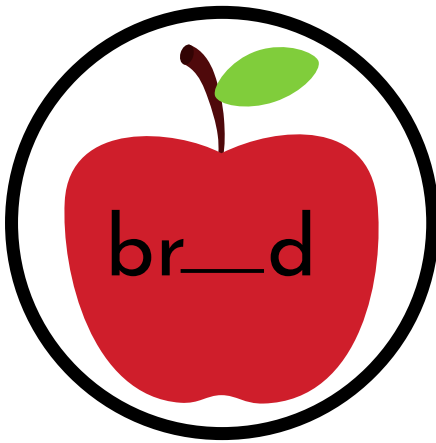
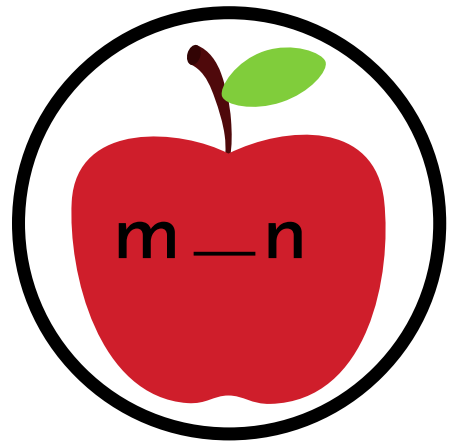
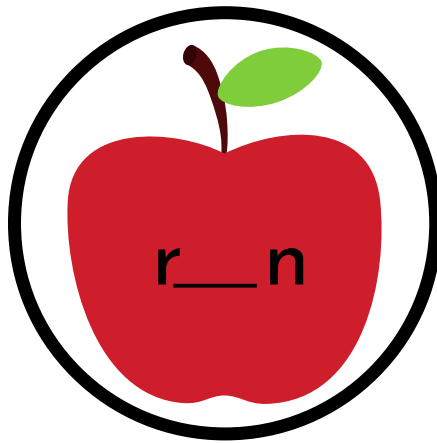
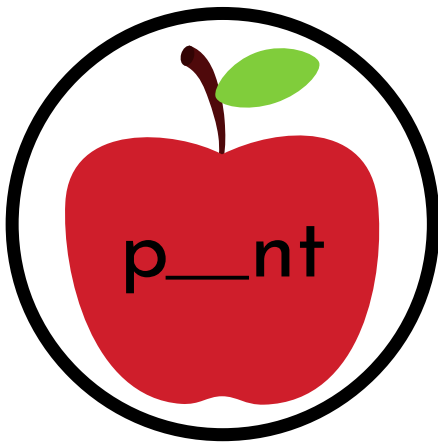
materials:

- list of ai/ay words
- paper basket of apple sheet
- blank apple sheet (if needed for other words)

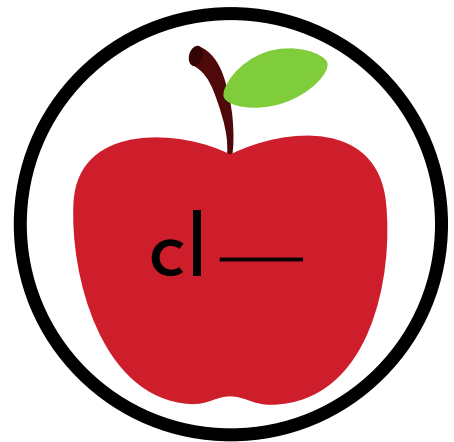
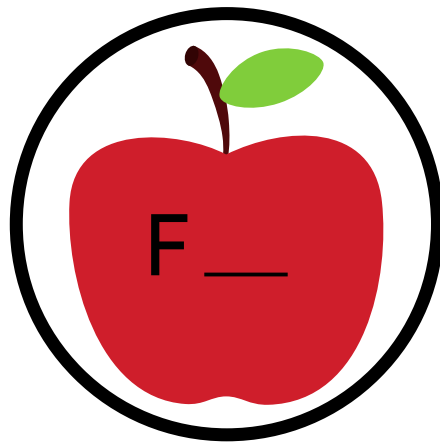
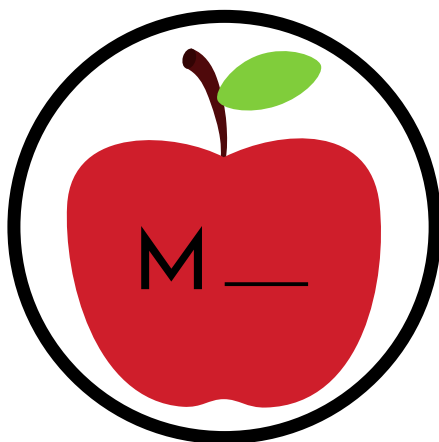
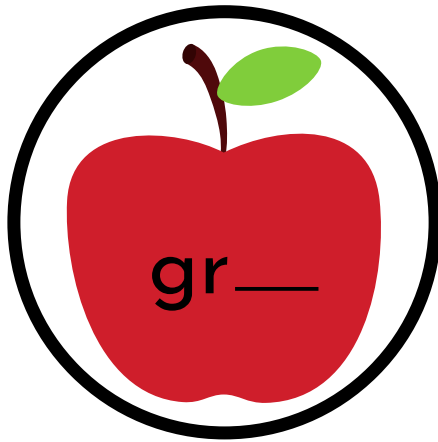
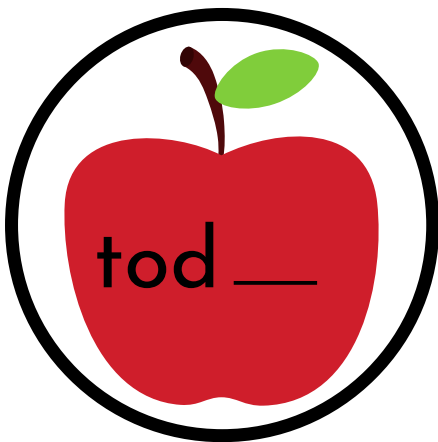
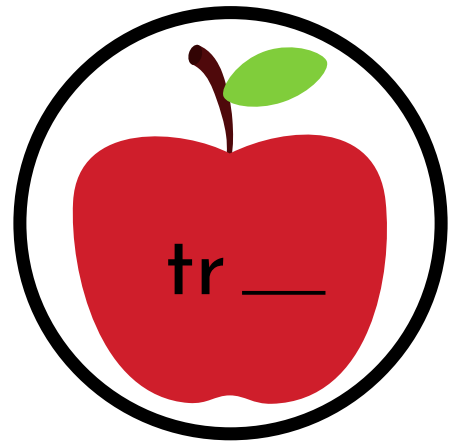
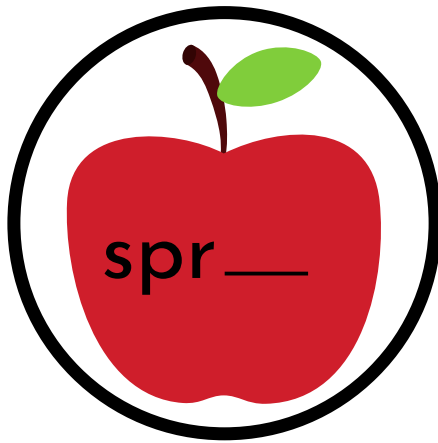
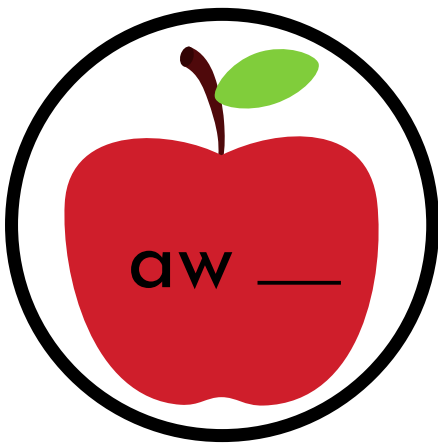
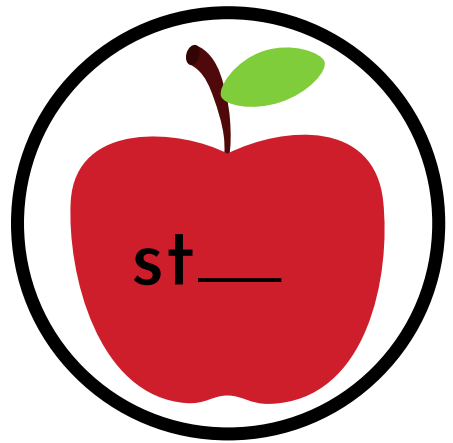
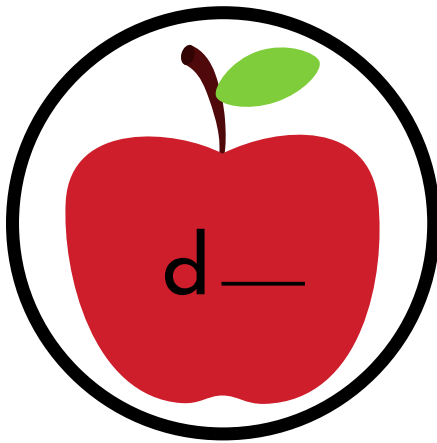
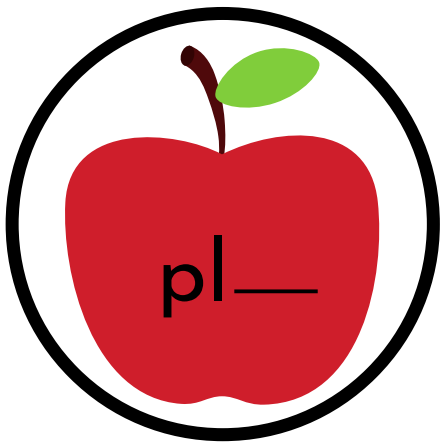
common core/ benchmarks

Language Arts: RF.2.3b

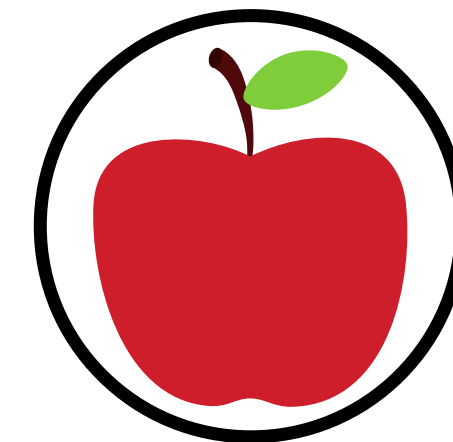
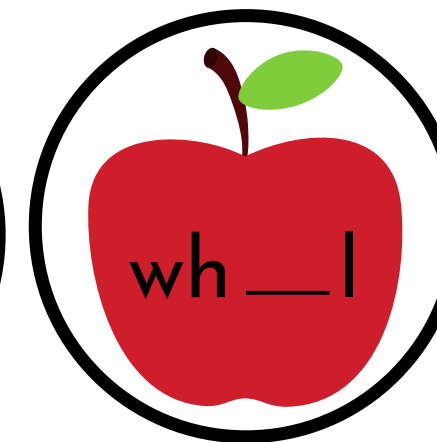
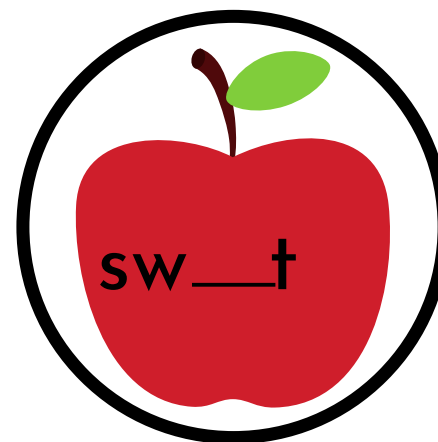
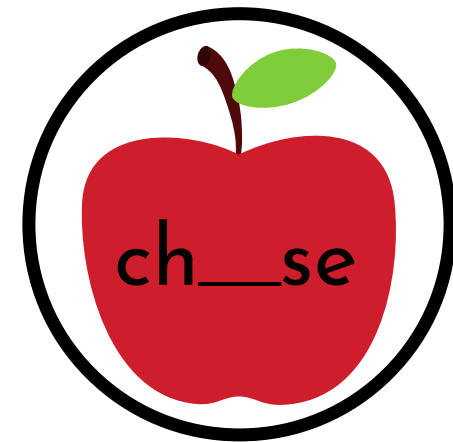
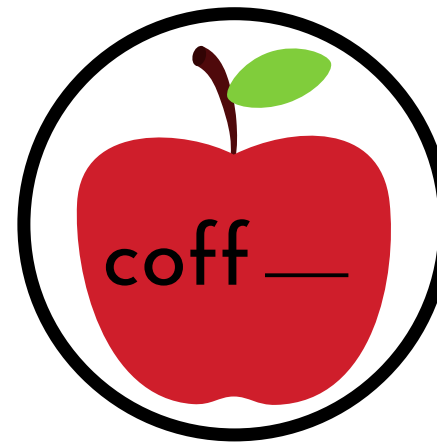
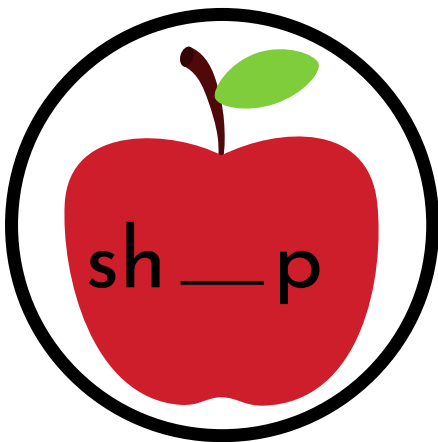
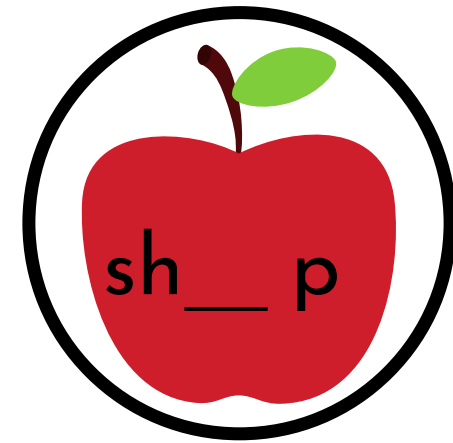
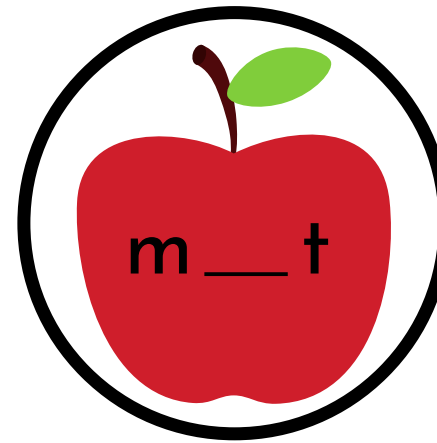
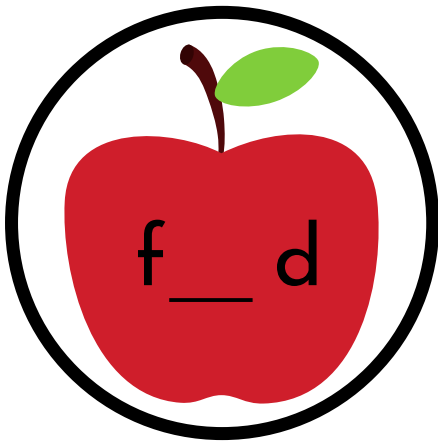
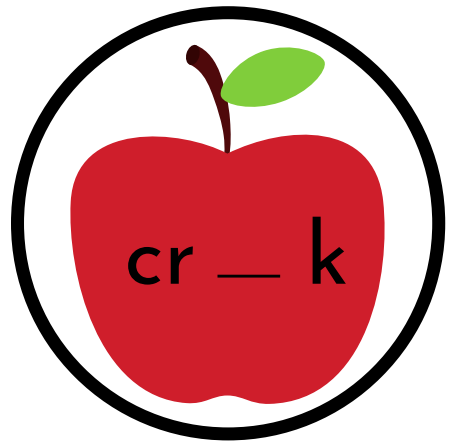
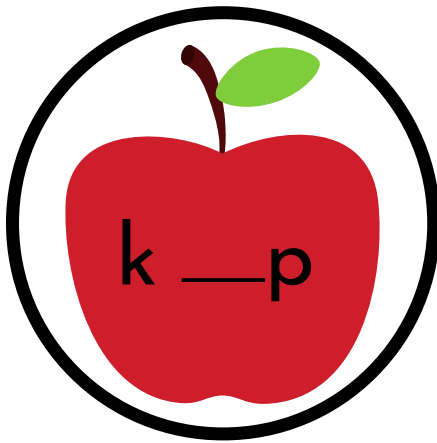
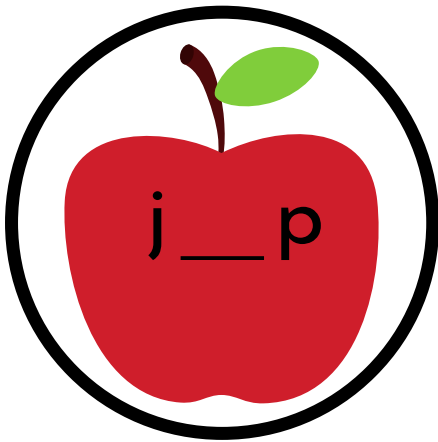
ai words for ai/ay sort



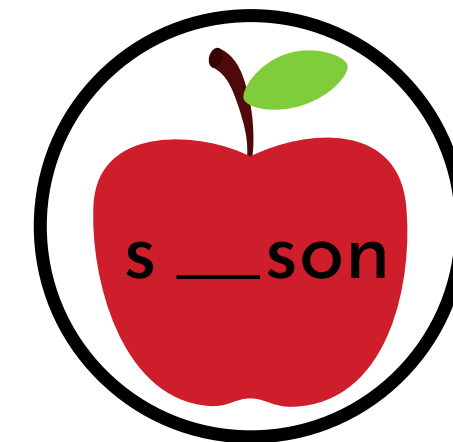
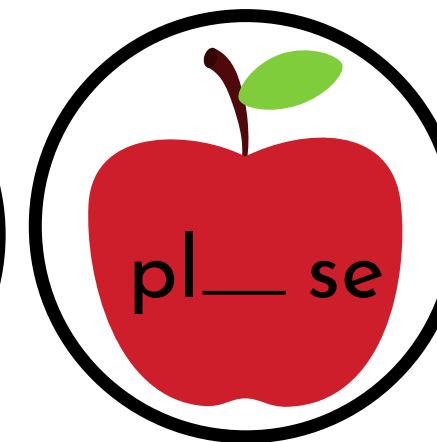
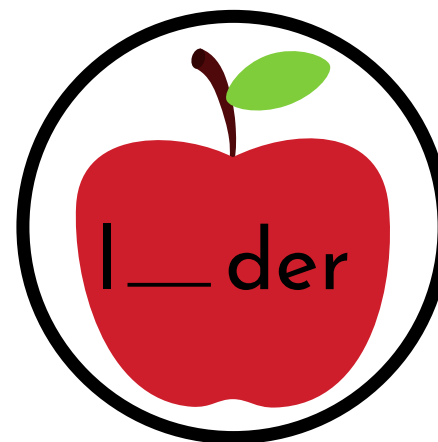
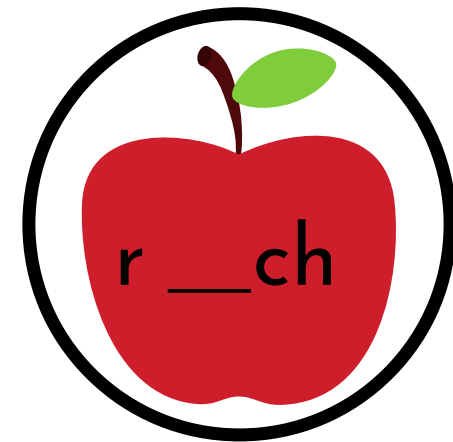
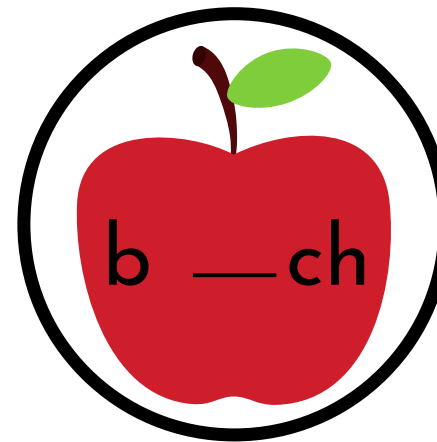
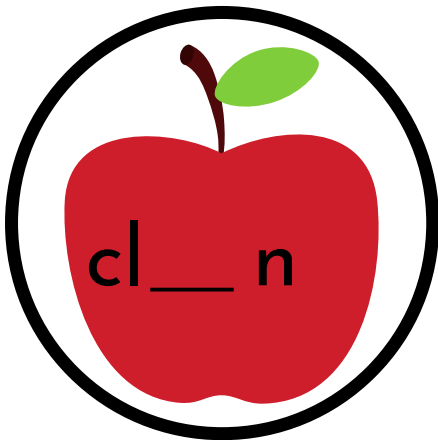
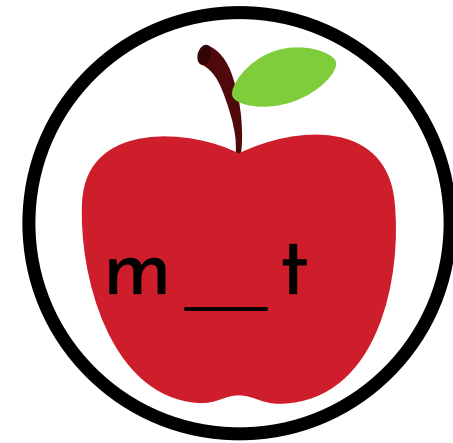
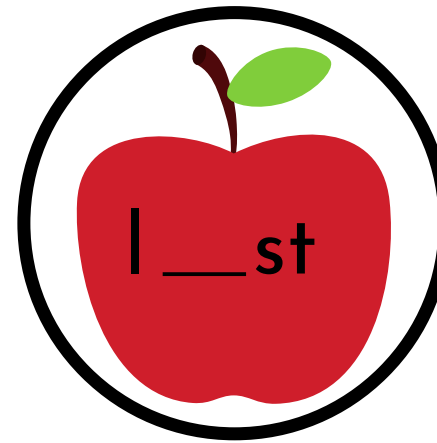
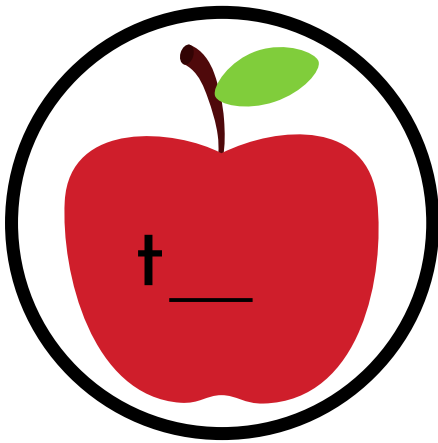
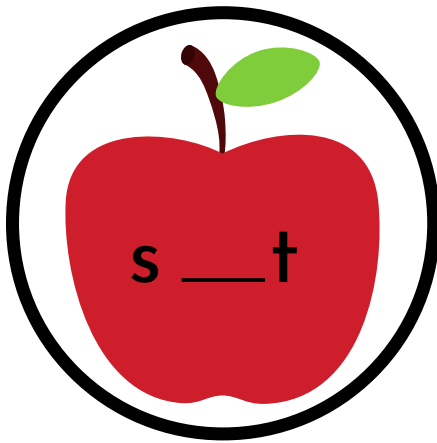
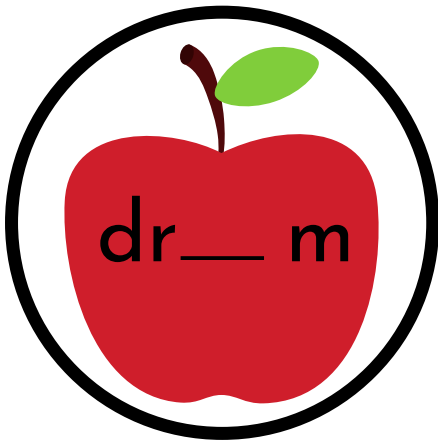
ay words for ai/ay sort



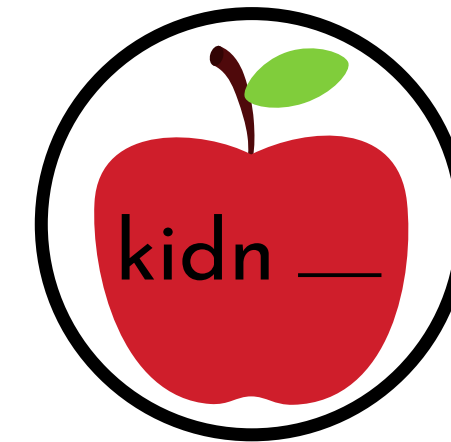
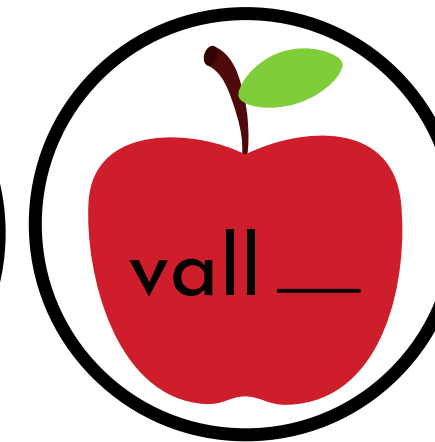
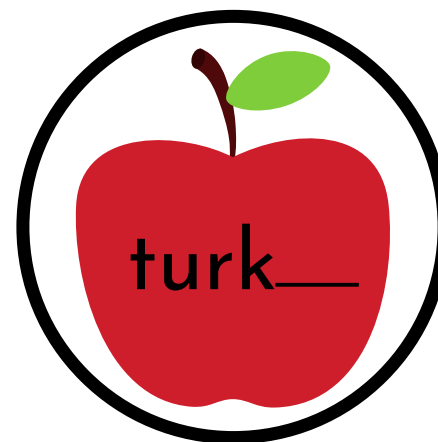
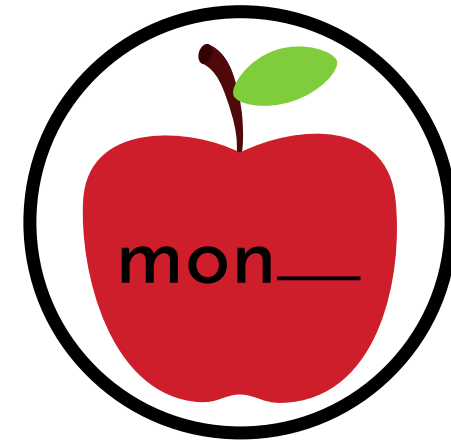
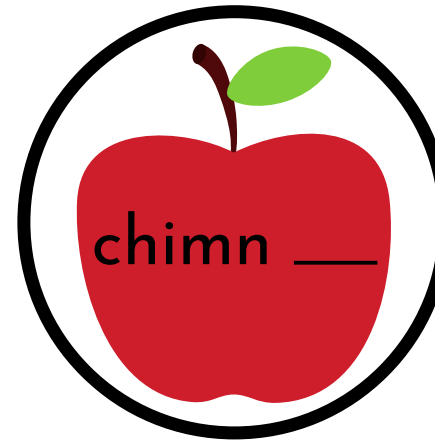
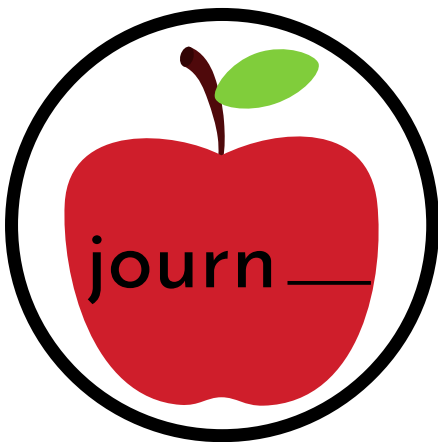
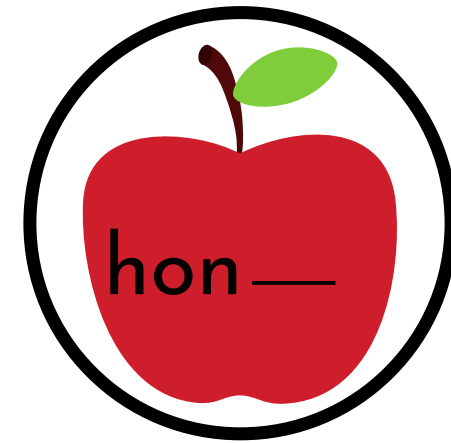
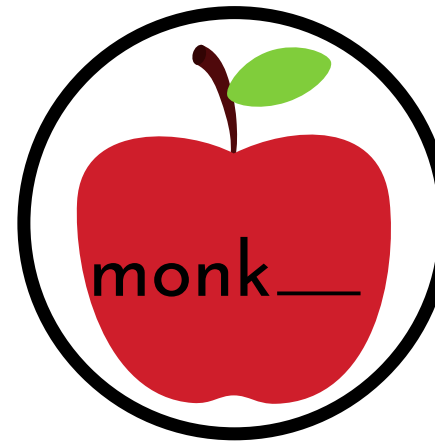
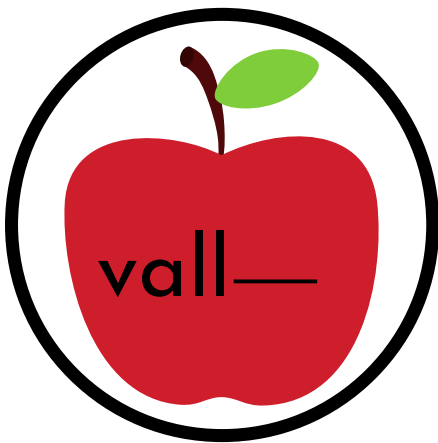
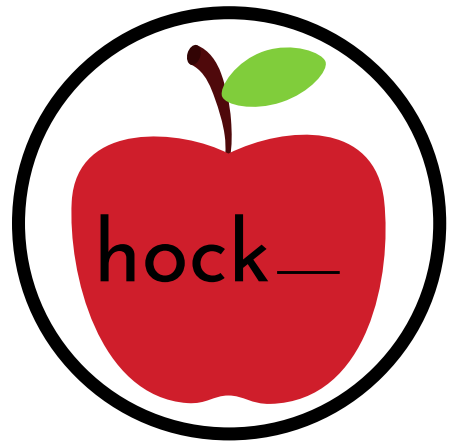
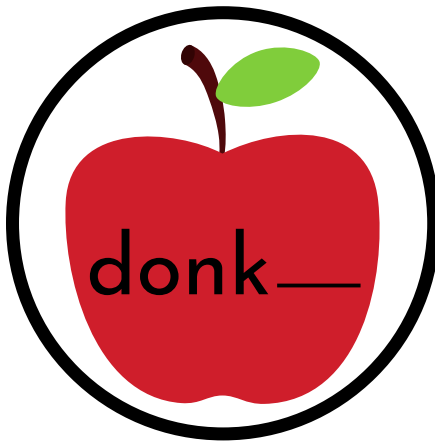
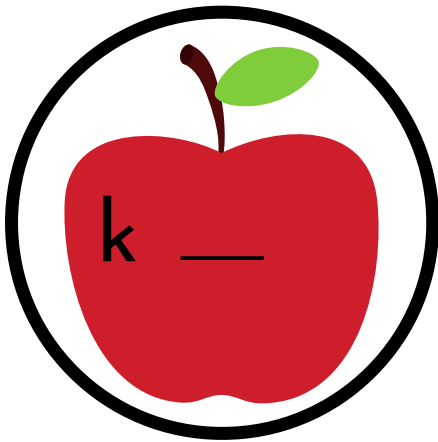
ee words for ee/ea/ey



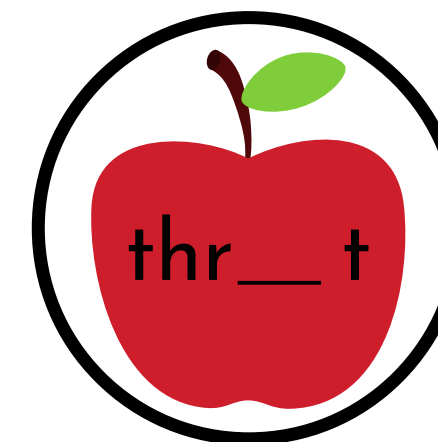
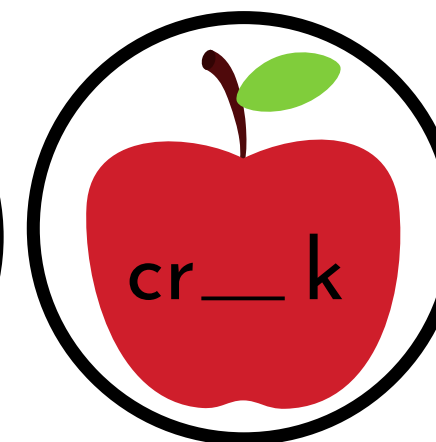
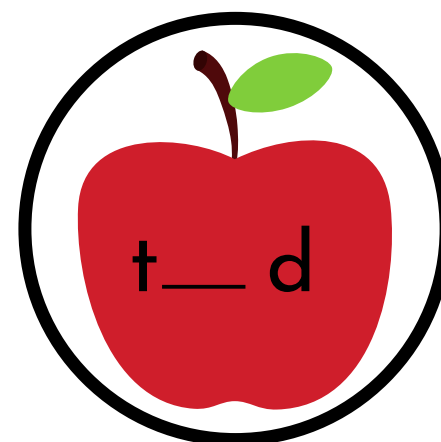
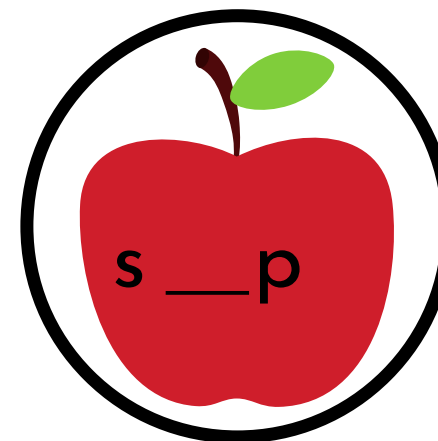
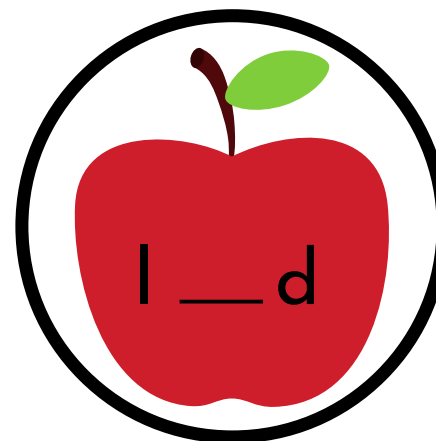
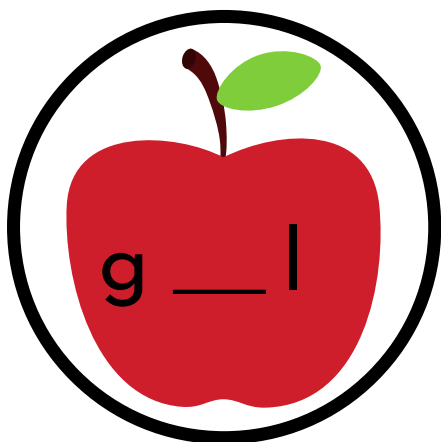
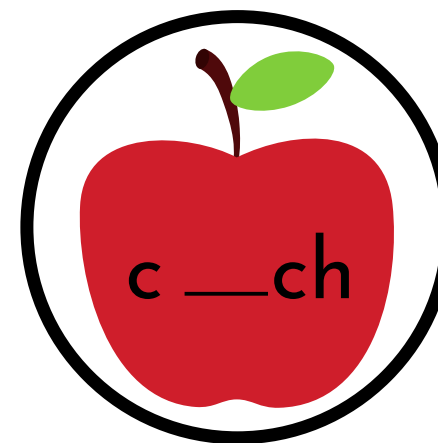
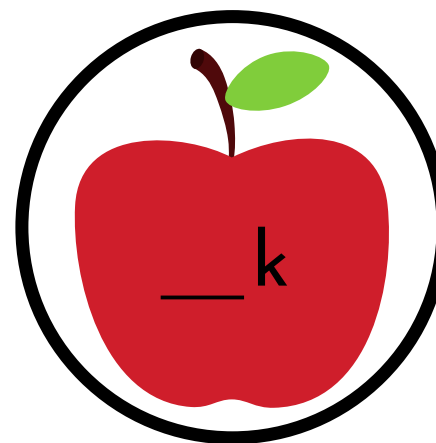
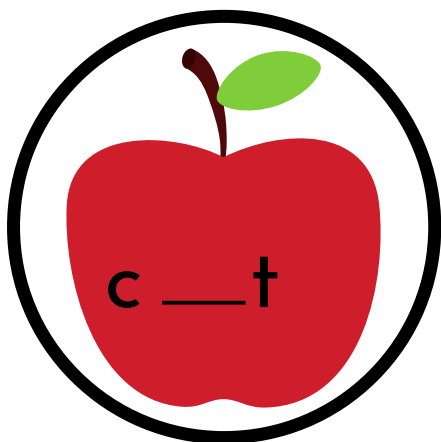
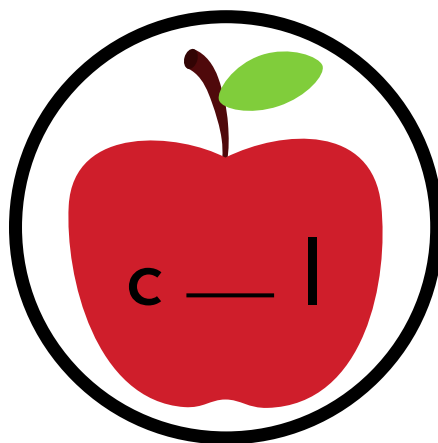
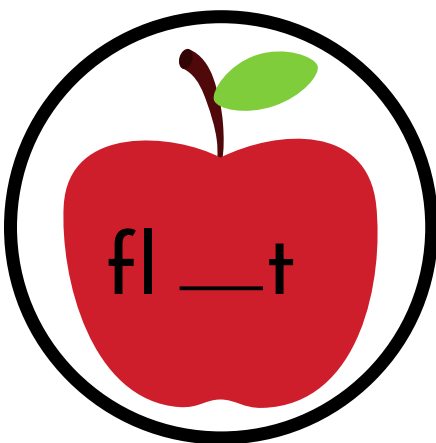
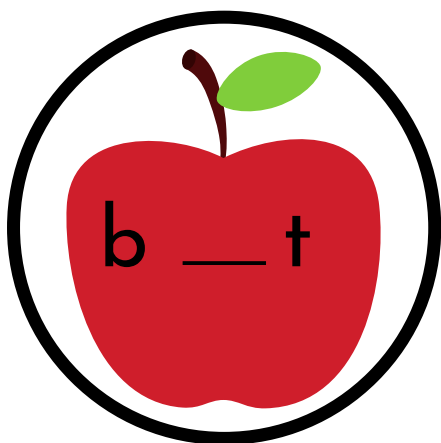
ea words for ee/ea/ey



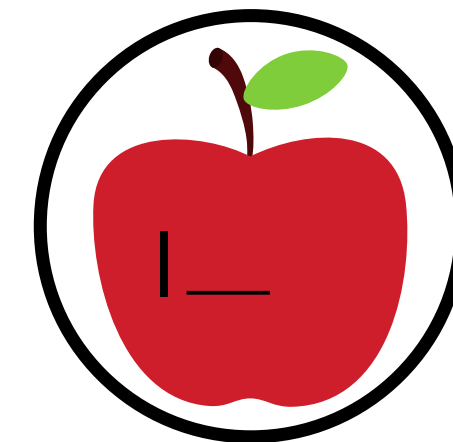
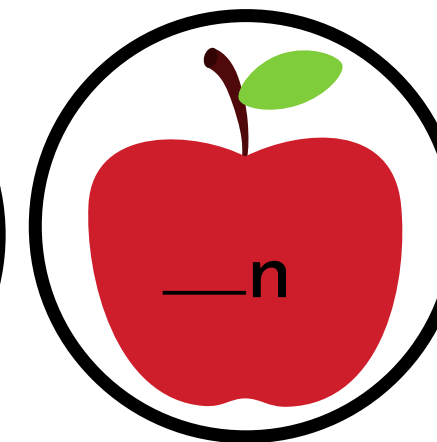
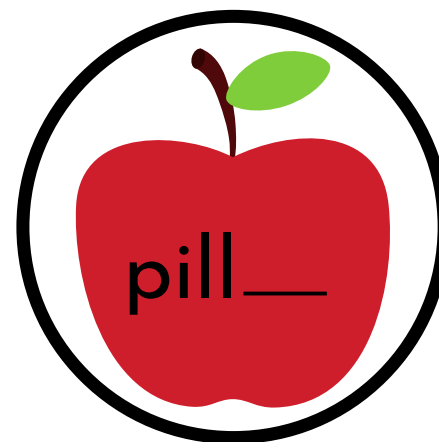
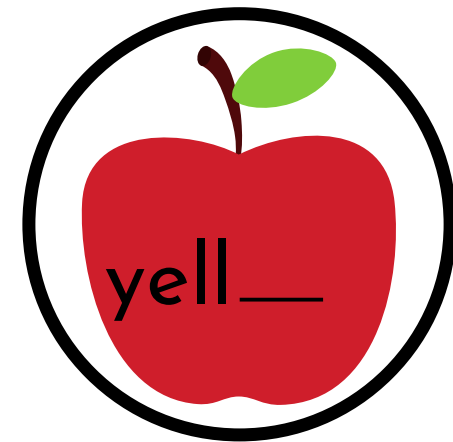
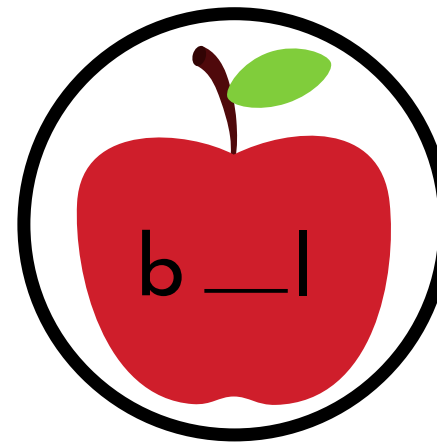
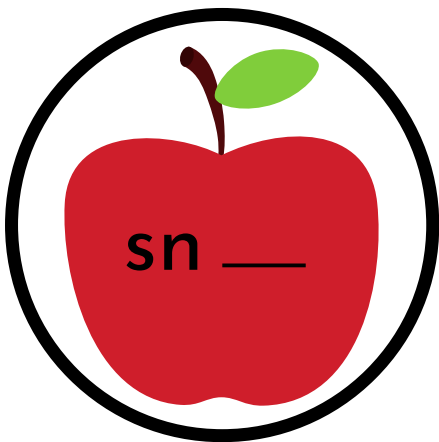
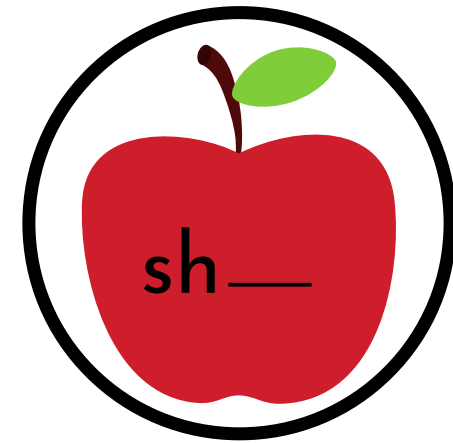
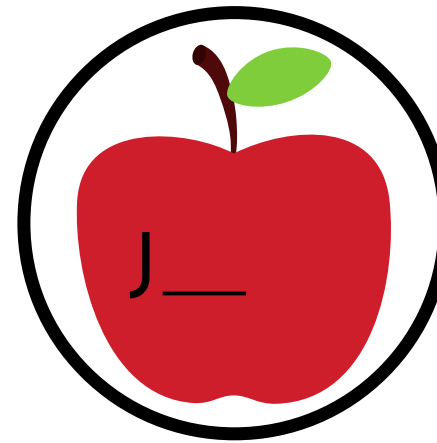
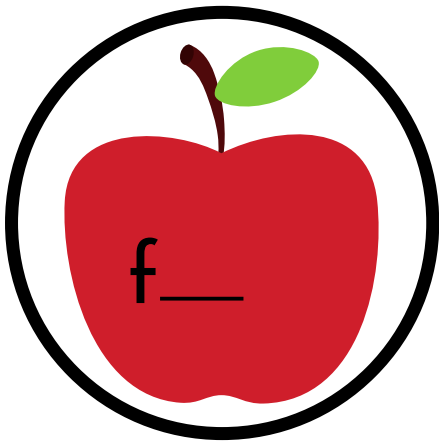
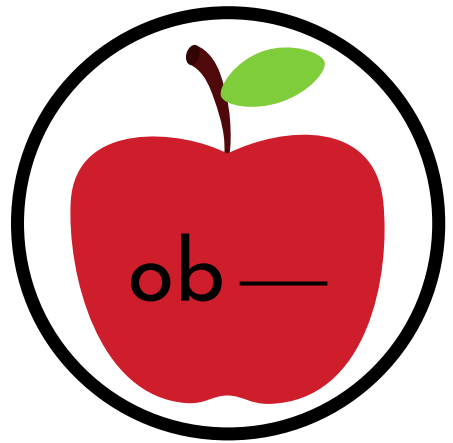
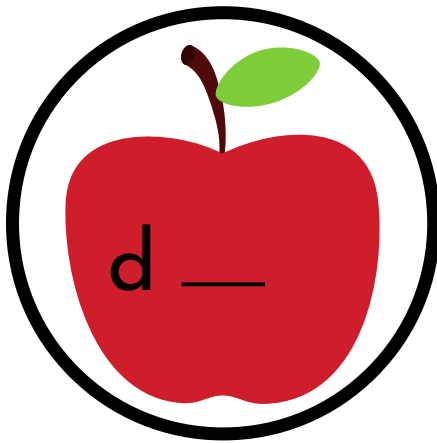
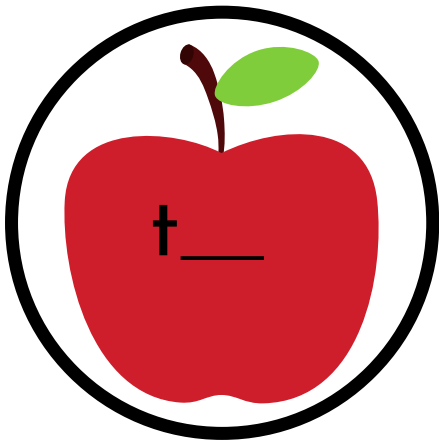
ey words for ee/ea/ey



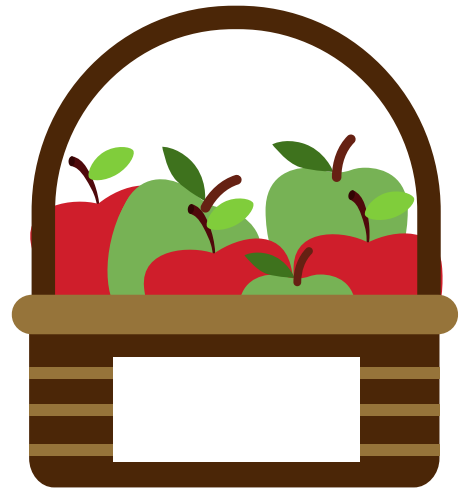
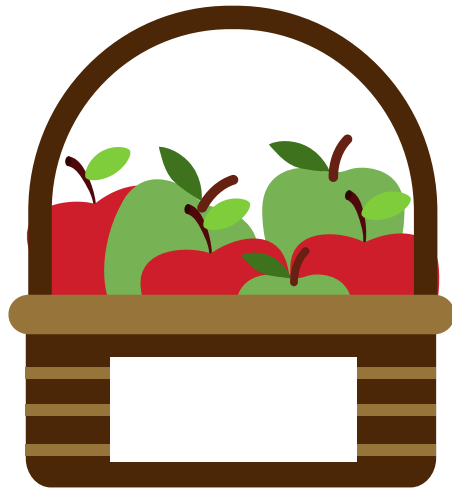
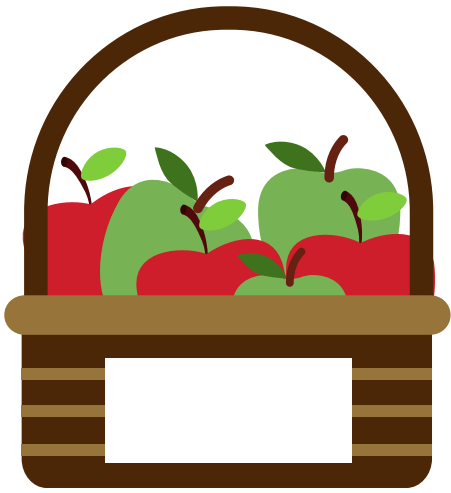
oa words for oa/oe/ow



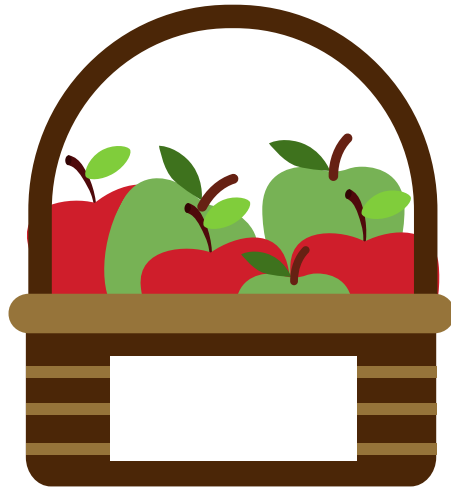
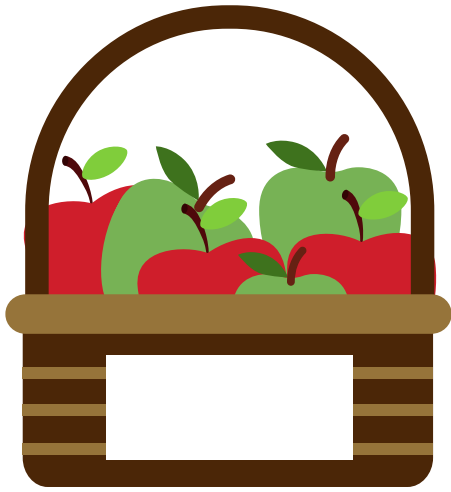
oe and ow words for oa/oe/ow



Name _____



Name _____



lesson: Make an apple pie

objective: write a how to on how to make an apple pie

overview:

- make an apple pie.
- Discuss the measure cups and the fact that four $\frac{1}{4}$ cups makes up one cup.
- write an how to

materials:

- ingredients for an apple pie
- journal apple pagw

common core/ benchmarks

Language Arts: w.2.2

lesson: Money match

objective: match the coins with correct amount

overview:

- write an amount on a paper basket of apples
- use coins to make the amount
- if desired record on record sheet

materials:

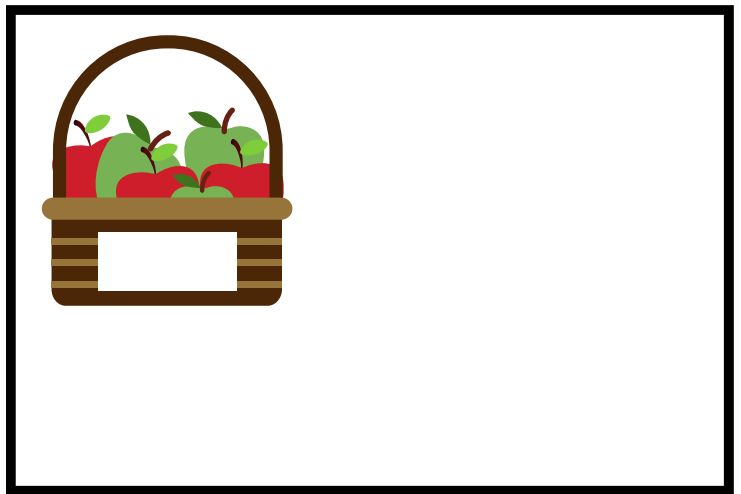
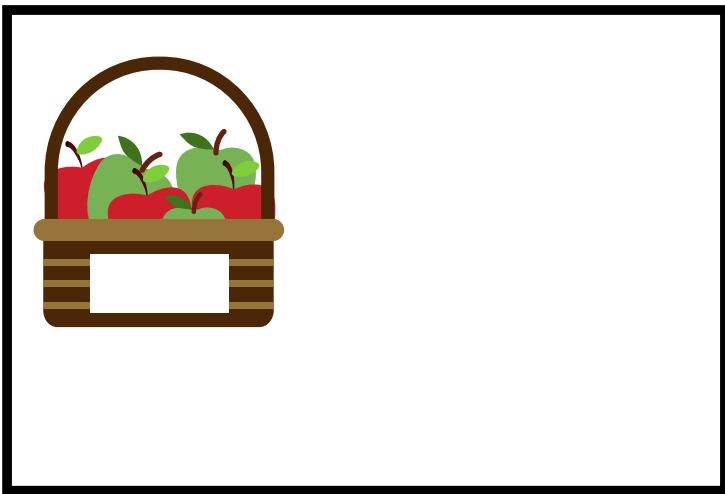
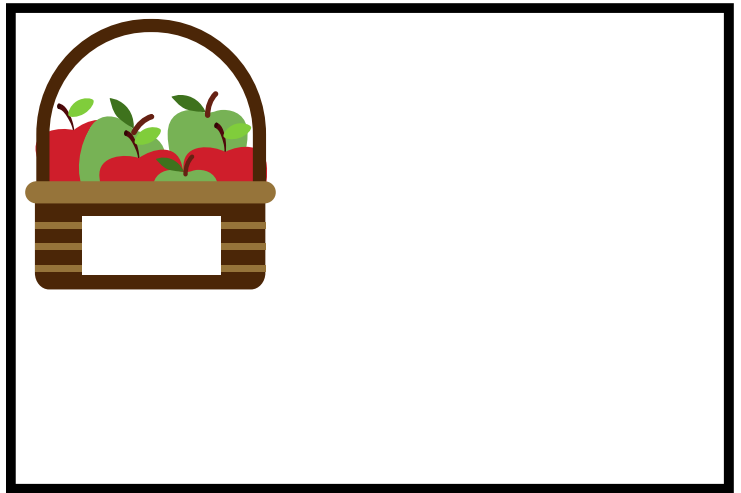
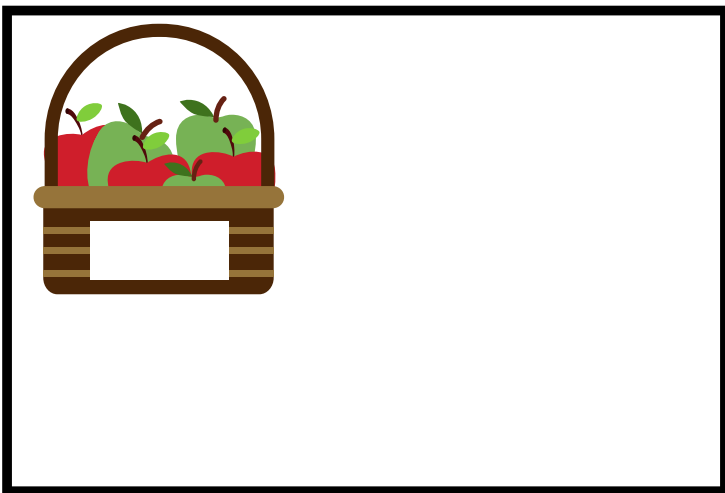
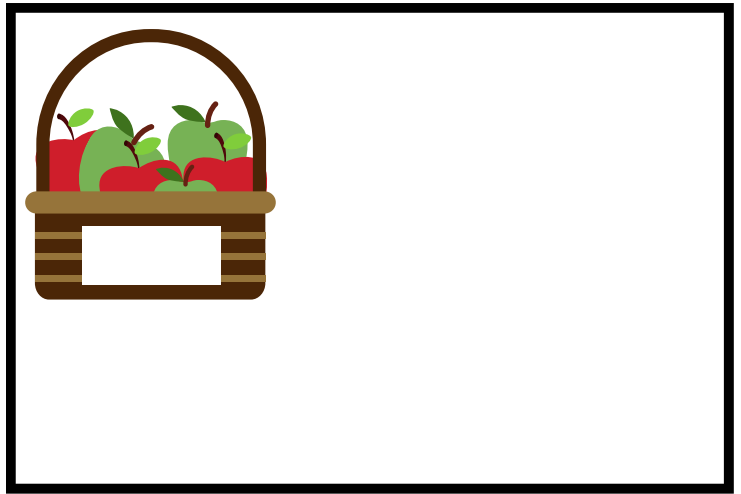
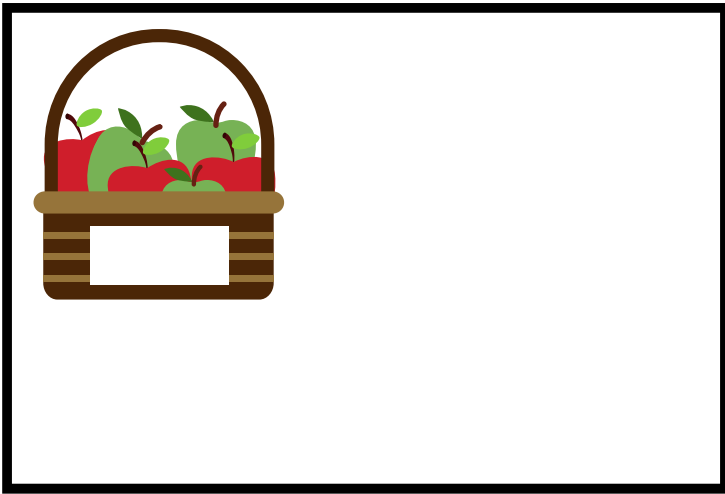
- paper basket of apples
- fake (or real) coins
- recording sheet

common core/ benchmarks

Math: 2.MD.8

Name _____

Money Match Record Sheet



lesson: 100s Chart Apple

objective: solve problems up with answers up to 100

overview:

- solve addition and subtraction problems with answers up to 100.
- based on answers color the square a certain color

materials:

- 100 chart (not included, but they are easy to find online)
- math problem sheet
- crayons or markers

common core/ benchmarks

Math: 2.OA.1

BROWN

$7-2=$ _____

$10+5=$ _____

GREEN

$14-7=$ _____

$8+8=$ _____

RED

$60+7=$ _____

$34+40=$ _____

$78-1=$ _____

$75+3=$ _____

$70+2=$ _____

$89-10=$ _____

$80-5=$ _____

$63+20=$ _____

$80+5=$ _____

$70+6=$ _____

$27+60=$ _____

$68+1=$ _____

$76-10=$ _____

$90-2=$ _____

$23+10=$ _____

$49-4=$ _____

$100-5=$ _____

$92+2=$ _____

$80-10=$ _____

$90+6=$ _____

$85-12=$ _____

RED

$97-13=$ _____

$62-20=$ _____

$29-4=$ _____

$12+12=$ _____

$61+0=$ _____

$99-2=$ _____

$49-1=$ _____

$52+1=$ _____

$80-40=$ _____

$50+1=$ _____

$50+5=$ _____

$89-3=$ _____

$64-10=$ _____

$40+17=$ _____

$49+10=$ _____

$57-1=$ _____

$40+7=$ _____

$33+3=$ _____

$67-9=$ _____

$68-4=$ _____

$44-10=$ _____

$52+11=$ _____

$37-2=$ _____

$30+7=$ _____

$73-11=$ _____

$55-3=$ _____

$55+10=$ _____

$59-10=$ _____

$34+9=$ _____

$58-12=$ _____

$52-10=$ _____

$40-2=$ _____

$37-10=$ _____

$32-6=$ _____

lesson: Base Ten Baskets

objective: practice understanding the value of numbers

overview:

- print up multiple paper baskets and write a variety of numbers on them
- use base ten blocks to show the number

materials:

- basket of apples
- base ten blocks (you can also find paper ones on line)
- place value mat

common core/ benchmarks

Math: 2.NBT.1,

lesson: equivalent equations

objective: figuring out equal equations

overview:

- Math the apples with the equivalent equation on the tree.

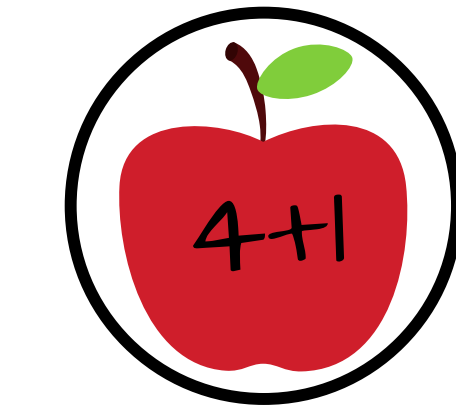
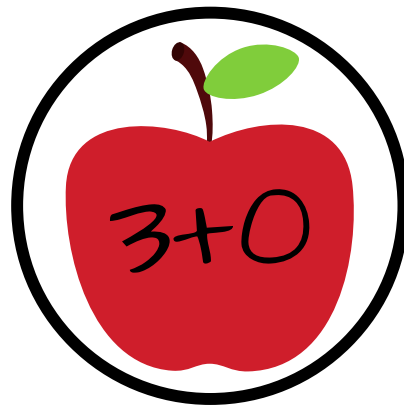
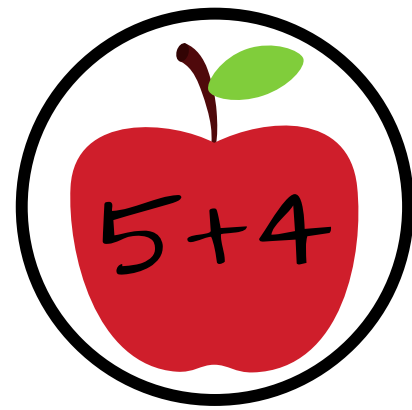
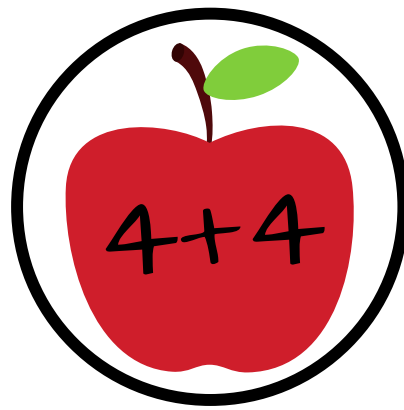
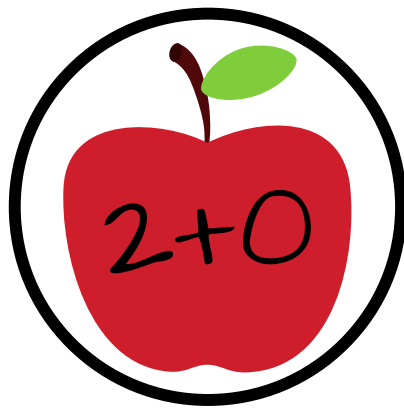
materials:

- tree with equations
- apples with equations

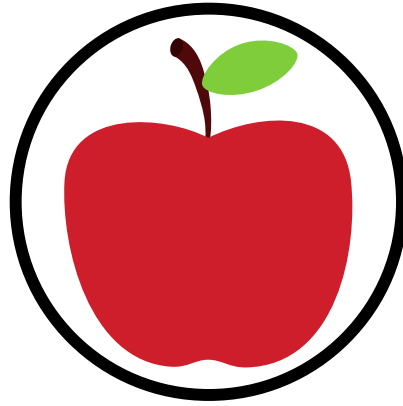
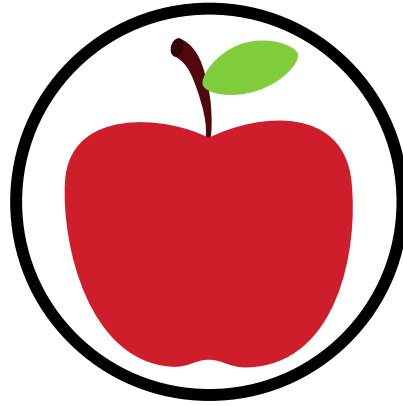
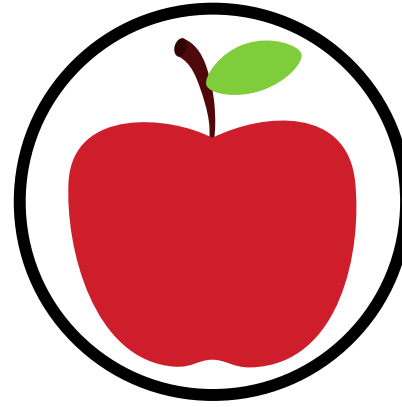
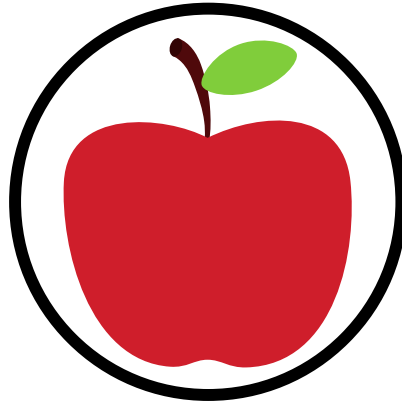
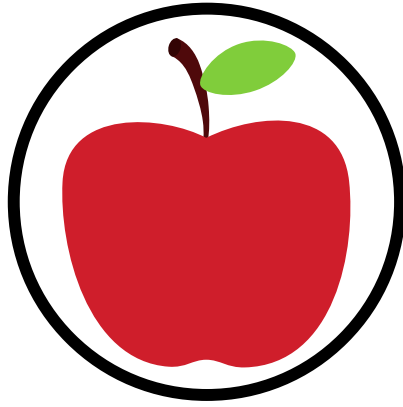
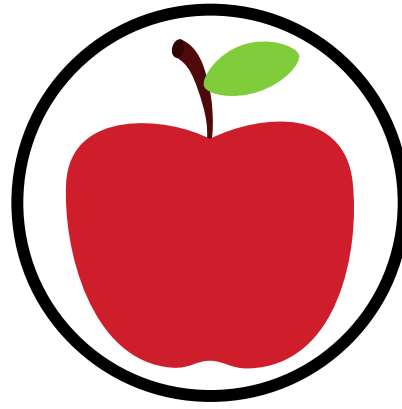
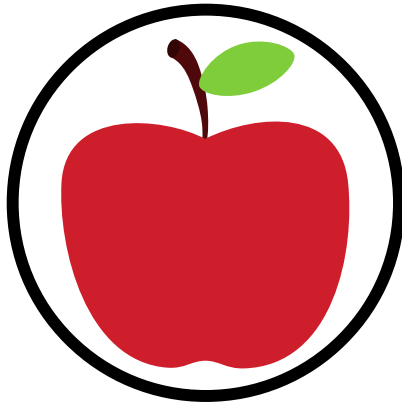
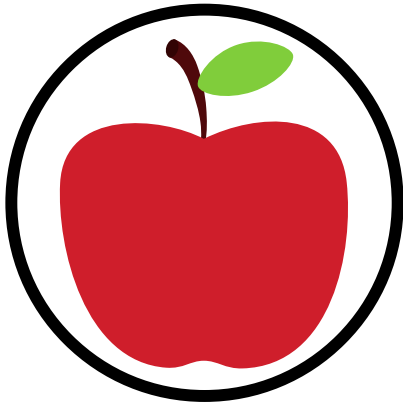
common core/ benchmarks

Math: 2.OA.1

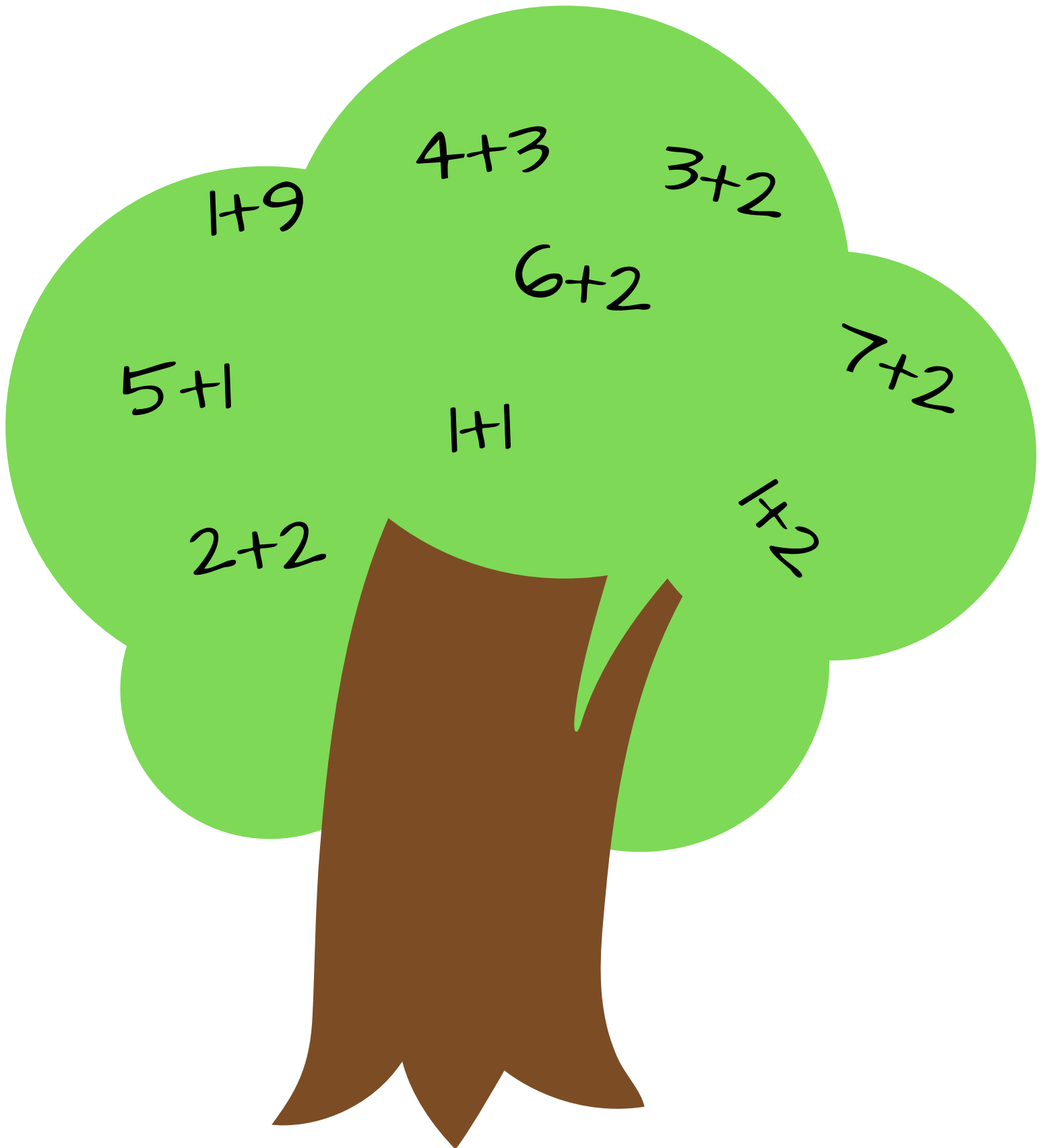
matching sums of 10



matching sums of 10- blank apples



matching sums of 10- tree



lesson: opinion piece: best part of an
apple orchard

objective: write an opinion piece

overview:

- after visiting an apple orchard write an opinion piece
- model how to write an opinion piece.
- state opinion, supply reasons, use linking words (because, and, also)
- concluding statement

materials:

- apple journal paper

common core/ benchmarks

Language Arts: W.2.1

lesson: Johnny Appleseed

objective: learn about Johnny Appleseed

overview:

- read a few books about Johnny Appleseed.
- Discuss who he was, and why he was important
- Write a short biography.

materials:

- apple journal paper

common core/ benchmarks

Language Arts: W.2.1

lesson:

Final Book

objective:

put together all learned

overview:

- for the final assessment, put together all of the journal pages completed
- I will be looking for details in drawings, quality writing, careful coloring.

materials:

- completed journal pages

common core/ benchmarks