



ALSO INCLUDES GOOGLE SLIDES

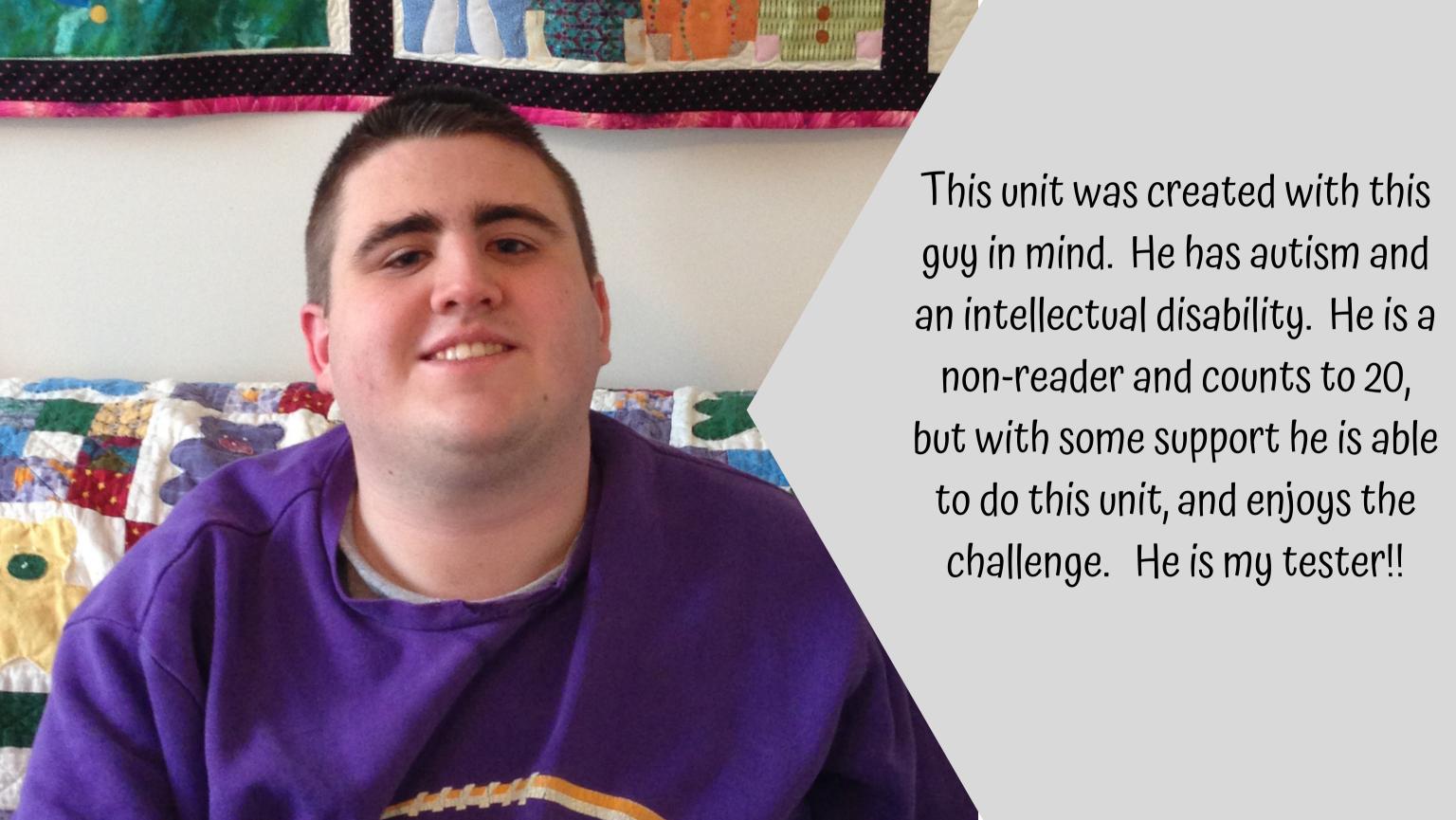


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This unit contains 16 days of material that is in both printable and digital formats. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

Probability Lesson Plan

Preparation

- · Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Book
 - o Print out, laminate, and bind
 - o OR your students can listen to the pre-recorded version
- - Print out a set of cards onto cardstock and laminate
 - Make one set for each student and also one for the teacher to use in 1 Spy

Activity

Read or listen

to a recording

of the book

(10 minutes)

Vocabulary

cards | Spy

(10 minutes)

Preassessment (do day 1 before starting lesson)

- . Choose the form of the assessment that best fits the learning level of your students
- · Give the assessment to assess what your students may already know
- · I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

- 1. Color Coding: this is a really easy way to add more structure to a matching
- activity. Outline or color in an e the corresponding picture symbo Day 2
 - a. For more info, read more https://specialneedsforspe differentiation/
 - b. I also have a blog post on https://specialneedsforspe 3-ways-easily-and-effectiv
- 2. Make you own copies of the act yesterday. For that reason:
 - a. I often complete the activ that I could use year after
 - b. My copies were also help more support or as a way

- · Labeling and reading a Venn Book Book Vocabulary activity Vocabulary activity Label a probability line Labeling and reading a Venn

Dav

Book

Activity

Vocabulary cut and paste

Vocabulary cut and paste

Determine probability from

a Venn diagram

· Determine probability from

Vocabulary activity

- Book Book Vocabulary activity Vocabulary cut and paste · Label a probability line · Determine probability from
- a Venn diagram Book Book
- Vocabulary activity Sorting impossible and certain

Activity

Vocabulary activity

- Book
- Vocabulary activity

(student set and

teacher set)

glue

Completed

objectives/templates

Communication devices

| Notes | Materials | | |
|---|--------------------------------------|--|--|
| Read through the story, asking lots of | Book | | |
| questions | Vocabulary board | | |
| Continue to make connections between | | | |
| book and vocabulary board | | | |
| I play this game, or variations of it the | Vocabulary cards | | |

Quick Look

Day

Book

Circle map

 I play this first few days Determine how many cards your students can handle in front of Vocabulary board them. This can vary, some students may be able to have all

the cards, so may only be able to

- handle a field of 3-5 Since this is the first time playing this game, I make it easy. Hold up a card, and have students find the matching one and hold it up
- · Discuss relevant points on the card
 - o You can also play this game in this manner having them find the symbol on their vocabulary board
- Circle map worksheet from Review the worksheet completed review vesterday vesterday (5 minutes) Label a Students will label a probability line. Worksheet Scissors
- probability Do 1-2 worksheets. · Add color coding if needed (10 minutes)

Sharing Each student shares one of their finished (10 minutes) probability line with the group using the communication method of their choice

a Venn diagram Book Vocabulary cut and paste Sudoku puzzle nes Vocabulary cut and paste Close worksheets ies Review if needed

Book

Assessment Venn

There is a 16 day lesson plan with group and individual activities.

But what about things that are not that easy to figure out, like the weather? If you hear thunder and there are dark clouds in the sky, you know it is likely it will rain.





Now, we want to know how many people have a do how many people have a cat. These are each cal or possible outcome. We draw each event as a contract the second seco

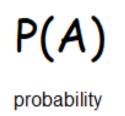


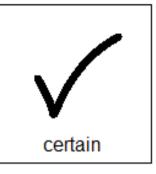


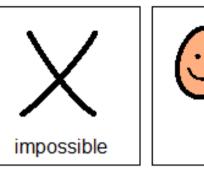
This unit contains a book that is 45 pages to introduce the topic.

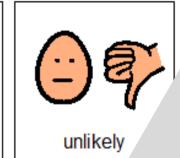
It comes in a pdf version as well as a voice-recorded PowerPoint (so you don't have to print it out.)

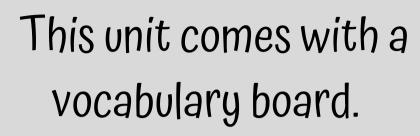


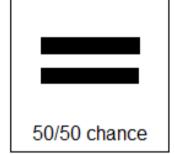


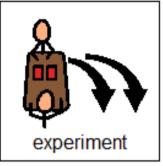


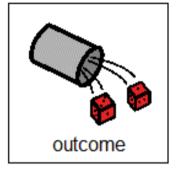


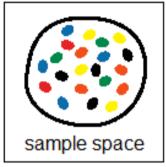




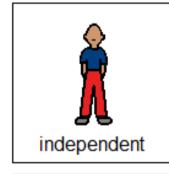


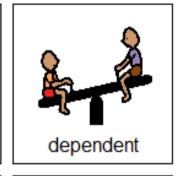


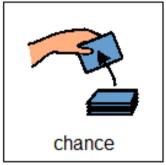


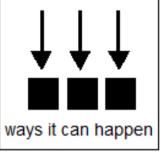


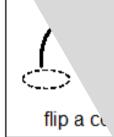


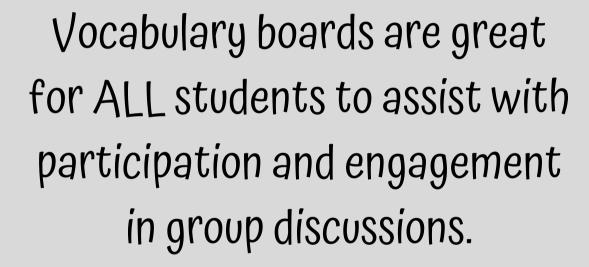


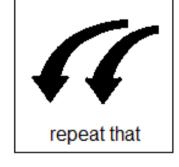


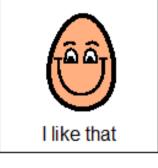


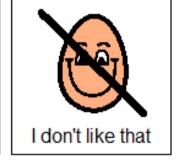


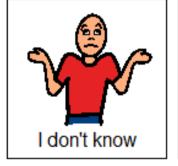














Tips on how to use in the unit!!

unlikely

Will probably not happen; less than 50/50 but more than impossible.



50/50 chance

Even chance that either of 2 outcomes will



sample space

All the possible outcomes in an experiment.



outcome

Possible result of an experiment.



experiment

Something you do over and over that has a certain set of possible results.



dependent

One event is affected by another event.



conditional probability

Any time you have dependent events.



independent

When the outcome of one event has no effect on future outcomes.



probability

How likely something will happen.



certain

Will definitely happen.



impossible

Cannot happen.



likely

Will probably happen; more than 50/50 but less than certain.



unlikely



50/50 chance



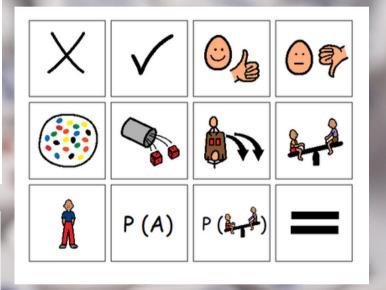
sample space



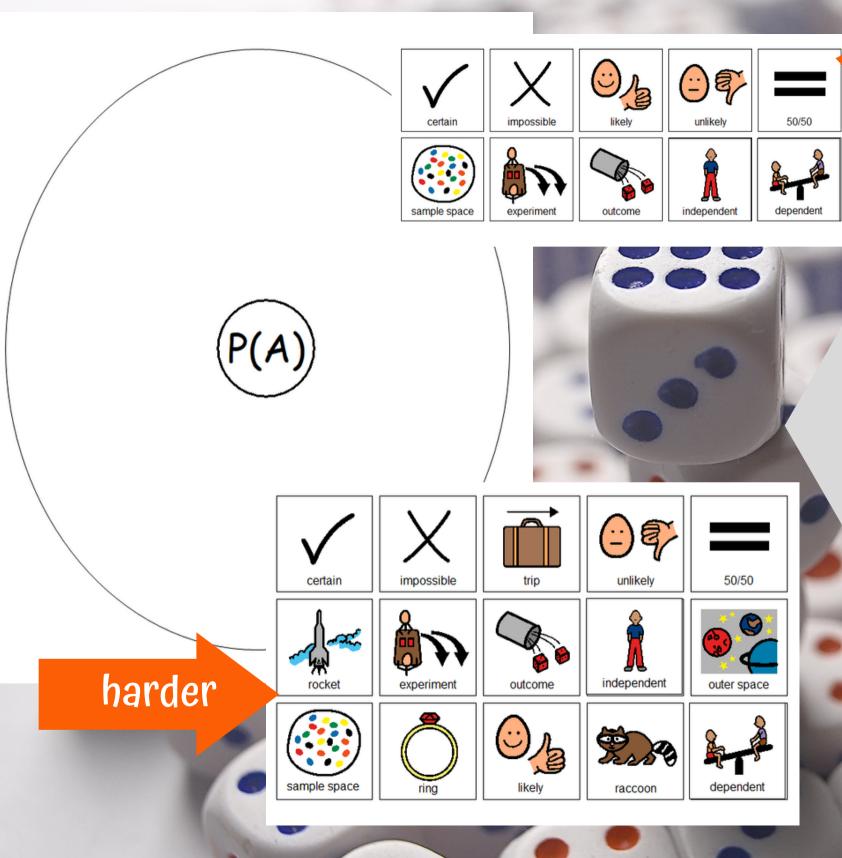
outcome



There are vocabulary cards students will use every day for a group activity. There is also a cut and paste activity.



| How likely something will happen. | Something you do over and over that has a certain set of possible results. |
|--|--|
| One event is affected by another event. | Possible result of an experiment. |
| Will probably happen; more than 50/50 but less than certain. | Will definitely happen. |

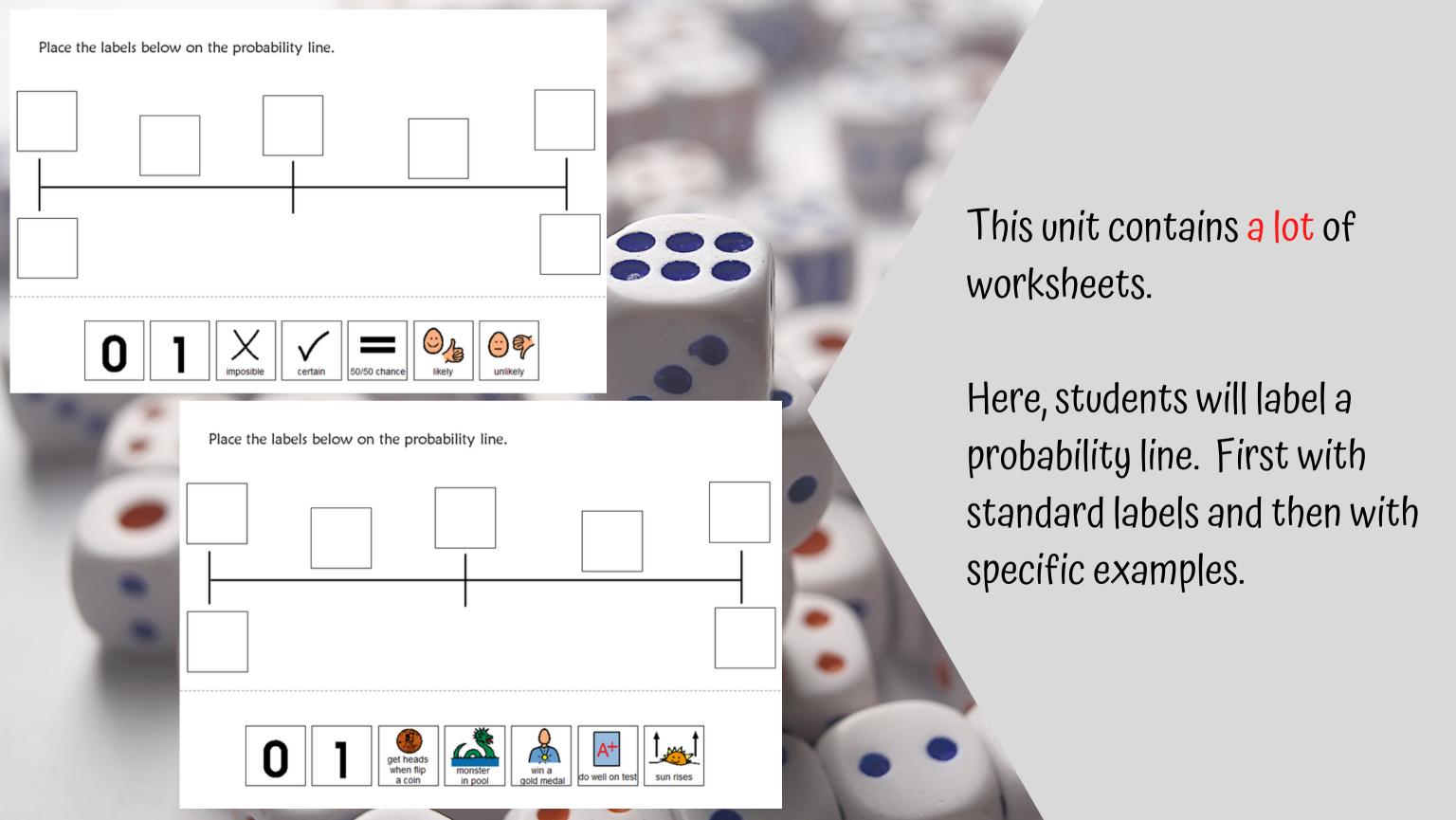


Errorless

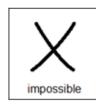
Circle map on probability.

This circle map is a great way for students to see a the concept at a glance. There are 2 versions:

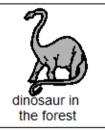
- One is errorless
- One has wrong answers mixed in students will have to set aside

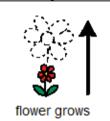
















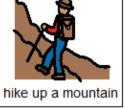


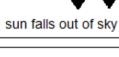








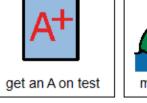


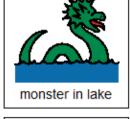


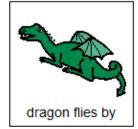


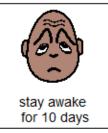




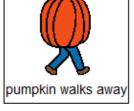




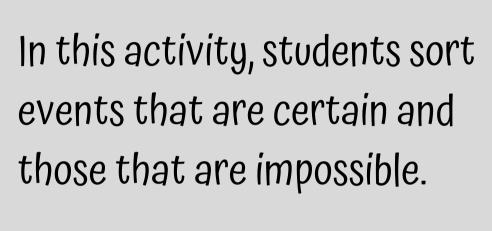












Directions on how to differentiate with color is included.

Listen to each example below and decide if the outcome is dependent or independent.

1. Joe does a magic trick and tells you to draw a card from a regular deck of cards. What is the probability you will draw the 7 of hearts?







Chocolate chip is the most popular type of cookie at the bakery. What is the probability you will get a chocolate chip cookie if you wait until later in the day?







3. What is the probability your teacher will bring an umbrella to school if it is cloudy outside?







4. What is the probability you will do well on the test if you study an extra 2 hours the night before?











Listen to each example below and decide if the outcome is dependent or independent.

5. What is the probability you will roll a 3 on a standard die?







6. What is the probability they would have pizza in to cafeteria for lunch if they had pizza yesterday?







7. What is the probability the coin will land on tails?







8. What is the probability of wearing red shorts on Friday?







This set has students identify whether events are dependent or independent. There are 8 questions.

Draw all of the possible outcomes if you roll this classic die one time.

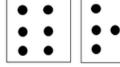






Circle all of the possible outcomes if you roll this classic die one time.

















4 experiments

Circle all of the possible outcomes if you draw 2 marble out of the bag. There are 2 red, 1 blue, and 2 black marbles.

















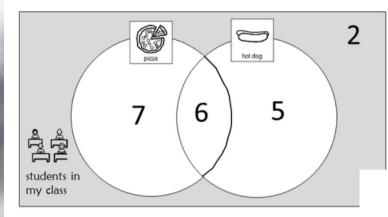




This set has students evaluate several experiments and determine all of the possible outcomes.

Each one comes with a differentiated version where students circle the possible outcomes.

Answer the following questions about this Venn diagram



1. What does the shaded part of this Venn diagram mean?







2. How many students don't like hot dogs OR pizza?





3. How many students are in the sample space?





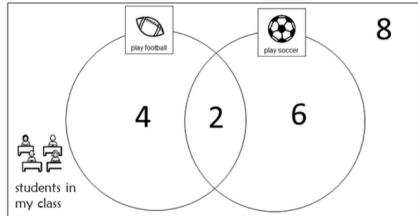


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Calculate the probabilities using the information in the Venn diagram. This is assuming events are independent.

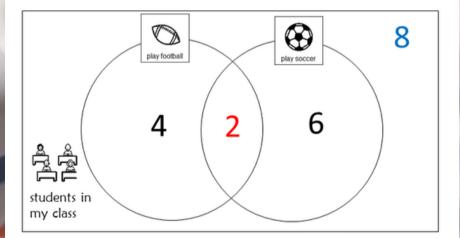


1. What is the probability someone in a similar class will play football?

2. What is the probability someone in a similar class will play ONLY soccer?

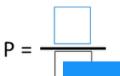
This unit has students learning how to use a Venn diagram when it comes to probability.

Calculate the probabilities using the information in the Venn diagram. This is assuming events are independent.



1. What is the probability someone in a similar class will play football AND soccer?

2. What is the probability someone in a similar class will play neither soccer or football?



differentiated



1. How likely something is to happen is called like a pig flying. 2. Some things are 3. Some things are like the sun rising tomorrow. it will 4. When you flip a coin, we say the chances are land on heads. 5. The probability of something is always between and 1.

Probability

6. It is you will meet the president.

7. You can also show probability using a

8. The sample space shows all the possible

9. Events that are

do NOT affect one another.

10. It is there will be more people at the pool on a sunny day.











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Close worksheet are a great informal assessment. This unit has 2 of them, for a total of 10 fill-in-the-blank questions.

Answer key included.

Version 1

1. An example of something that is likely to happen is:







2. An example of an independent event is:







3. If the probability =1, then it is:







4. This is all the possible outcomes in your experimer







5. The probability your puppy will get bigger as it gr













Version 2

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 1

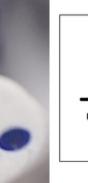




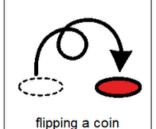


see a ufo

Q 2









The 10-question assessment has 3 versions.

Version 3

- 1. An example of something that is likely to happen is:
 - A. storm in summer
 - B. rain in desert
 - C. see a ufo
- 2. An example of an independent event is:
 - A. eating pizza
 - B. flipping a coin
 - C. bring an umbrella
- 3. If the probability =1, then it is:
 - A. impossible
 - B. 50/50
 - C. certain
- 4. This is all the possible outcomes in your experiment:
 - P(A)
 - dependent
 - sample space
- 5. The probability your puppy will get bigger as it grows is:
 - unlikely
 - certain
- 6. If you remove a card from the deck each time you do the experiment, then the events will be:
 - A. 50/50
 - B. independent
 - C. dependent

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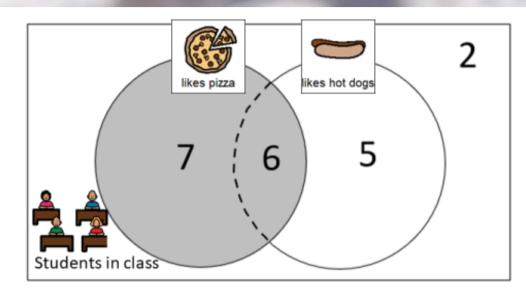
But if you are eating a bag of chocolate and vanilla cookies that has 3 chocolate and 3 vanilla cookies and you eat the cookie you pull out each time, what do you think happens?

Watch the movie on Probability



This unit also includes digital versions of the activities.

Students can watch a movie book version of the book rather than printing it out.



1. What does the shaded part of this Venn diagram mean?







2. How many students like pizza?

7+6

2

5

3. How many students don't like pizza?

5+2

5

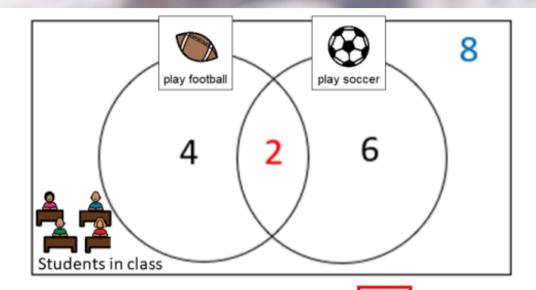
6

Circle the answers to the questions about the Venn Diagram.



Each activity is set up so students can click and drag answers. No typing is required.

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 What is the probability someone in a similar class will play football AND soccer?

2. What is the probability someone in a similar class will play neither soccer or football?

Calculate the probabilities using the information in the Venn diagram. This is assuming events are **independent**.

20 20



2

The second set of slides uses color for differentiation and extra support for students who may need it. Mix and match slides from both sets to make the perfect set for each student.

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