## Small Croup

## Center Time

Provide each child with fish counters, an ocean image, a dark cloth or paper, and a small pond (plate). Children take turns drawing a card to determine how many fish to help get into the ocean (addition) or how many will be eaten by the shark (subtraction). After drawing a card, children move the fish to their checking plate, then their partner checks to make sure they have the correct number. Children then cover their oceans with the cloth so they cannot see the fish. Both children then move the fish from their checking plate to the ocean (under the cloth) or shark. Children discuss how many fish are in their oceans now, without peeking under the cloth. They then remove the cloth to check. The other child draws a card and play continues.
Primary
Objectives Producing and understanding number combinations of totals to 5 or more.

- Developing an understanding of addition and subtraction problems with numbers up to 5 or more.

Materials - Ocean picture (1 for each child)

- Checking plate ("pond"; 1 for each child)
- Small bowl (1 for each child)
- Fish counters ( $\sim 10$ for each child)
- Cloth or piece of paper (1 for each child)
- Shark box (1 per small group)
- Think-Pair-Share cards
- Counting cards (1 set; see Summary of Activity Adaptations for other counting card options) - 0-10 numeral and dot
- Plus/Minus cards (one set)
- Number Path (one; see Summary of Activity Adaptations for other number path options)
- 0-5, 0-10, or 0-20 path
- Step Icons

How to Play the Activity

The activity steps icons below outline the steps of the activity. Print these icons as cards and share them to help children remember the steps. They're also a helpful scaffold for children!


## Setup



## Step 1

Teacher chooses a starting number of fish from the bowl and shows the corresponding Counting Card and places that many fish in their ocean.


## Step 2

Teacher asks child, "Am I right?" Child checks.

## Step 3

Teacher covers the ocean with the cloth and child selects one face-down Plus/ Minus card.

## Step 2

Teacher "jumps" that many fish from the bowl and into the checking pond (small plate).

## Step 4

Teacher "jumps" that many fish from the bowl and into the checking pond (small plate).

## Step 6

Children remove the cloth from the ocean to check how many fish are still in their ocean.

## Subtraction



## Step 1

Children state how many fish are to be subtracted based on the Plus/ Minus card selected (e.g., -1).

## Step 3

Teacher asks child, "Am I right?" Child checks.

## Step 5

Children think-pair-share with a partner about how many fish are in the ocean now and how they know (without looking under the cloth).


## Step 2

Teacher "jumps" that many fish from the ocean and into the checking pond, without removing the cloth.

## Step 4

Teacher "jumps" their fish from the checking pond into the shark's mouth.


## Step 6

Children remove the cloth from the ocean to check how many fish are still in their ocean.

Teacher's Guide Instructions for introducing the activity to the Whole Group.

## Introduce the Activity

- We are going to pretend to be sharks that eat the little fish! Okay, let's all pretend to be BIG sharks and swim in the water.
- Here is our shark that we'll use for this game!
- Have children move their arms to pretend they're swimming, or something similar.
- Show children the shark box.
- Now, these fish are so little they can't swim very far. So, when they want to go in the ocean or leave the ocean, they have to go into the pond first.
- Have the ocean image visible to children. Put the fish into the small bowl; show the fish as you talk about them. The small plate serves as the "pond"; model moving one fish from the bowl to the "pond".


## Model the Activity

- Let's try it!
- First, let's see how many fish are going to be in our ocean to start.
- Point to the first step icon card.
- Show a counting card indicating the number of starting fish (3).
- To make the math easier, if children struggle starting the game with 3 fish, start with a smaller number.
- To make the executive function (EF) easier, use the Step Icon cards.
- To make the math harder, start the game with a larger number (>3) of fish.
- To make the executive function (EF) harder, omit the Step Icon cards.
- Count as you put three fish onto the ocean board.
- To make the executive function (EF) easier, use a counting card to label the number of fish children have in their ocean to help them remember.
- Point to the second step icon card.
- Point to each fish in the ocean plate while children count, "1, 2, 3...3!"
- Point to the third step icon card.
- Use the cloth to cover the fish on the ocean board.
- Encourage children to indicate how many fish are in their ocean without removing the cloth (do not add or remove any fish here).
- Oh no! There was a storm and now our oceans are muddy and we can't see the fish! So, how many fish were in our ocean?
- Now, we pick a card to find out if more fish are going to swim into our ocean or be eaten by the shark!
- Point again to the third step icon card.
- Pick a Plus/Minus card from the stack. You can decide on an operation (addition or subtraction) and a number ahead of time based on children's skills.
- Go to the addition steps or subtraction steps depending on which card was picked.
- To make the math and the executive function (EF) easier, focus on addition only (include only addition cards).
- To make the math and executive function (EF) harder, focus on addition and subtraction (include both addition and subtracting cards).


## Addition Steps

- Plus 1! That means one more fish swims into our ocean. But remember, these fish are so little they can't swim very far. So it has to swim into the pond first.
- Point to the fourth ADDITION step icon card.
- Show the +1 Plus/Minus card.
- To make the math easier, add only one fish at a time.
- To make the math harder, add more fish, for example, 2, 3, or more fish.

Introduce terms such as sum and plus.

- Point to the sixth ADDITION step icon card.
- Put one fish on the checking plate (pond).
- Point to the sixth ADDITION step icon card.
- Point to the fish on the checking plate while children count, "1... 1!"
- Point to the seventh ADDITION step icon card.
- Keeping the cloth on the ocean, add the fish from the checking plate under the cloth.

Now we figure out-How many fish are in our ocean now? Think-Pair-Share with your partner.

- Point to the eighth ADDITION step icon card.
- Children Think-Pair-Share with a partner to determine how many fish are in the ocean now. Keep the cloth on the ocean and fish.
- To make the executive function (EF) easier, use the Think-Pair-Share cards.

Briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again.

- To make the executive function (EF) harder, omit the Think-Pair-Share cards.
- To make the math and executive function (EF) harder, have children articulate exactly what mathematics they performedincluding what they started with, what they added or subtracted, and the result.
- Point to the ninth ADDITION step icon card.
- Verbalize the starting number and the number added.
- Remove the cloth to "clear the mud" and verify how many are in the ocean now.
- To make the math easier, if the starting number gets too high for children after play has begun, simply remove all of the fish to restart with 0 .
- To make the math and executive function (EF) easier, use a number path ( $0-5,0-10$, or 0-20 depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate adding.

Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part added).

- To make the math and executive function (EF) harder, ask prompting questions throughout the activity (e.g., "You have 3 fish, but want 6 . How many more do you need? Or how many more do you need to add?").
- Point to the third step icon card.
- Place the cloth over the remaining fish on the ocean board.


## Subtraction Steps

- Now, the shark is hungry! Let's find out how many fish it's going to eat...
- It gets to eat one fish! Show me your shark mouths.
- Point again to the third step icon card.
- Select one SUBTRACTION card from the Plus/Minus cards.
- REMEMBER... if children are not yet ready for subtraction, stick with addition only.
- Point to the fourth SUBTRACTION step icon card.
- Flip over the -1 Plus/Minus card. You can decide on the number ahead of time based on children's counting skills.
- Have children move their arms to pretend they're sharks.
- NOTE: If the number being subtracted is too large for the number of fish left in the ocean, choose another plus/minus card, saying something such, "Oh, no! Our card says the shark is going to eat three fish, but we only have two fish left. We don't have that many fish in our ocean. Let's pick another card."
- To make the math easier, subtract only one fish at a time.
- To make the math harder, Subtract more fish, for example, 2, 3, or more fish.

Introduce terms such as minus and difference.

- Point to the fifth SUBTRACTION step icon card.
- Keeping the cloth on the ocean and the fish covered, remove one fish from the ocean to the checking plate.
- Point to the sixth SUBTRACTION step icon card.
- Point to the seventh SUBTRACTION step icon card.
- Move the fish from the checking plate to the shark's mouth. Encourage children to count with you.
- Now we figure out-How many fish are in our muddy ocean now? Think-PairShare with your partner.
- Point to the eighth SUBTRACTION step icon card.
- Children Think-Pair-Share with a partner to determine how many fish are in the muddy ocean now. Keep the cloth on the ocean and fish.
- To make the executive function (EF) easier, briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again.
- To make the math and executive function (EF) harder, have children articulate exactly what mathematics they performedincluding what they started with, what they subracted, and the result.
- Point to the ninth SUBTRACTION step icon card.
- Verbalize the starting number and the number subtracted.
- Remove the cloth to "clear the mud" and verify how many are in the ocean now.
- To make the math and executive function (EF) easier, use a number path ( $0-5,0-10$, or $0-20$, depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate subtracting.

Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part removed).

- To make the math and executive function (EF) harder, ask prompting questions throughout the activity (e.g., "You have 4 fish, but want 2 . How many more do you need to take away (or subtract)?
- Keep playing, adding and subtracting fish as time allows.


## Summary of Activity Adaptations

This is a summary of all the available adaptations to make Cookie Game easier or harder to accommodate the needs of your students. Whether the adaptation is easier or harder depends on each student's math or executive function (EF) skills.

|  | Make It Easier | Make It Harder |
| :---: | :---: | :---: |
| Math | - If children struggle starting the game with 3 fish, start with a smaller number. <br> - Focus on addition only (include only addition cards). <br> - Add only one fish at a time. <br> - If the starting number gets too high for children after play has begun, simply remove all of the fish to restart with 0 . <br> - Subtract only one fish at a time. | Start the game with a larger number (>3) of fish. <br> - Add more fish, for example, 2, 3, or more fish. <br> - Subtract more fish, for example, 2, 3, or more fish. |
| EF | - Use the Step Icon cards. <br> - Use a counting card to label the number of fish children have in their ocean to help them remember. <br> - Use the Think-Pair-Share cards. <br> - Briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again. | - Omit the Step Icon cards. <br> - Omit the Think-Pair-Share cards. |


|  | Make It Easier | Make It Harder |
| :---: | :---: | :---: |
| Math \& EF | Use a number path (0-5, 0-10, or 0-20 depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate adding. <br> Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part removed). | - Focus on addition and subtraction (include both addition and subtracting cards). <br> - Have children articulate exactly what mathematics they performed-including what they started with, what they added or subtracted, and the result. <br> - Ask prompting questions throughout the activity (e.g., "You have 3 fish, but want 6 . How many more do you need? Or how many more do you need to add?"). <br> - Ask prompting questions throughout the activity (e.g., "You have 4 fish, but want 2. How many more do you need to take away (or subtract)? |

## Explore The Executive Function And Math Skills In This Activity

Visit the website for resources to support teaching this activity.

## What to Do Next

Are some students ready for more challenge? Try the adaptations provided above for Whole Group. On another day, have the students play in pairs in a Small Group.

## Center Time

Provide each child with fish counters, an ocean image, a dark cloth or paper, and a small pond (plate). Children take turns drawing a card to determine how many fish to help get into the ocean (addition) or how many will be eaten by the shark (subtraction). After drawing a card, children move the fish to their checking plate, then their partner checks to make sure they have the correct number. Children then cover their oceans with the cloth so they cannot see the fish. Both children then move the fish from their checking plate to the ocean (under the cloth) or shark. Children discuss how many fish are in their oceans now, without peeking under the cloth. They then remove the cloth to check. The other child draws a card and play continues.
Primary - Producing and understanding number combinations of totals to 5 or more.
Objectives - Developing an understanding of addition and subtraction problems with numbers up to 5 or more.

## Materials - Ocean picture (1 for each child)

- Checking plate ("pond"; 1 for each child)
- Small bowl (1 for each child)
- Fish counters ( $\sim 10$ for each child)
- Cloth or piece of paper (1 for each child)
- Shark box (1 per small group)
- Think-Pair-Share cards
- Counting cards (1 set; see Summary of Activity Adaptations for other counting card options) - 0-10 numeral and dot
- Plus/Minus cards (1 set)
- Number Path (one; see Summary of Activity Adaptations for other number path options)
- 0-5, 0-10, or 0-20 path
- Step Icons

How to Play the Activity

For small groups, we suggest four children arranged in pairs of two with a teacher present to provide guidance. The activity steps icons below outline the steps of the activity. Print these icons as cards and share them to help children remember the steps. They're also a helpful scaffold for children!


## Setup



## Step 1

Teacher chooses a starting number of fish from the bowl and shows the corresponding Counting Card and places that many fish in their ocean.


## Step 2

Teacher asks child, "Am I right?" Child checks.

## Step 3

Teacher covers the ocean with the cloth and child selects one face-down Plus/ Minus card.

## Step 2

Teacher "jumps" that many fish from the bowl and into the checking pond (small plate).

## Step 4

Teacher "jumps" their fish from the checking pond into the shark's mouth.

## Step 5

Children think-pair-share with a partner about how many fish are in the ocean now and how they know (without looking under the cloth).


## Step 6

Children remove the cloth from the ocean to check how many fish are still in their ocean.

## Subtraction



## Step 1

Children state how many fish are to be added or subtracted based on the Plus/Minus card selected (e.g., +1).

## Step 3

Teacher asks child, "Am I right?" Child checks.

## Step 5

Children think-pair-share with a partner about how many fish are in the ocean now and how they know (without looking under the cloth).


## Step 2

Teacher "jumps" that many fish from the ocean and into the checking pond, without removing the cloth.

## Step 4

Teacher "jumps" their fish from the checking pond into the shark's mouth.

## Step 6

Children remove the cloth from the ocean to check how many fish are still in their ocean.

Teacher's Guide Instructions for introducing the activity to the Small Group.

## Introduce the Activity

- We are going to pretend to be sharks that eat the little fish! Okay, let's all pretend to be BIG sharks and swim in the water.
- Here is our shark that we'll use for this game!
- Have children move their arms to pretend they're swimming, or something similar.
- Show children the shark box.
- Remember, these fish are so little they can't swim very far. So, when they want to go in the ocean or leave the ocean, they have to go into the pond first.
- Provide each child with a bowl with approximately 10 fish, 1 small plate ("pond"), 1 ocean board, and 1 cloth. Have one shark box in the middle of the table for all children to share.


## Model the Activity

- Let's give it a try with your own oceans! How many fish are in your oceans now?
- Allow children to say out loud or echo back, "zero". Correct children as needed.
- First, let's see how many fish are going to be in our ocean to start.
- Point to the first step icon card.
- Show a counting card indicating the number of starting fish (3).
- To make the math easier, if children struggle starting the game with 3 fish, start with a smaller number.
- To make the executive function (EF) easier, use the Step Icon cards.
- To make the math harder, start the game with a larger number (>3) of fish.
- To make the executive function (EF) harder, omit the Step Icon cards.
- Have all children place three fish in their oceans. Check to make sure all children have the correct number before continuing.
- To make the executive function (EF) easier, use a counting card to label the number of fish children have in their ocean to help them remember.
- Now, everyone ask your partner, "Am I right?" Partners, you check to make sure your friend has the right number of fish in their ocean.
- Point to the second step icon card.
- Encourage children to check each other, correcting as necessary.
- How many fish are in your oceans now?
- Oh no! There was a storm and now your oceans are muddy and we can't see the fish!
- So, how many fish are in your oceans?
- Remember, you are big sharks and we are going to use these cards to help us find out if more fish are going to swim into the ocean or into the shark's belly!
- But remember, these fish are so little they can't swim very far. So they have to swim into the pond first, then our partner helps us check to make sure we have the right number.
- Then, we'll put the fish into the pond and then into the ocean or the shark.
- Then, we'll check to figure out how many fish we have left in our oceans.
- Finally, we'll pick another card and start again.
- Encourage children to respond.
- Point to the third step icon card.
- Have children use the cloth to cover the fish on their ocean boards.
- Encourage children to indicate how many fish are in their ocean without removing the cloth (do not add or remove any fish here).
- Point to the fourth ADDITION and SUBTRACTION step icon cards as you mention fish going into the ocean or being eaten by the shark, respectively.
- Point to the fifth and sixth ADDITION \& SUBTRACTION step icon cards as you describe each step.
- Point to the seventh ADDITION \& SUBTRACTION step icon card as you describe this step.
- Point to the eighth and ninth ADDITION \& SUBTRACTION step icon cards as you describe this step.
- Point to the fourth step icon cards as you describe this step.


## Time to Play!

- Okay, everyone has three fish in your oceans. Let's pick a card to figure out how many fish we'll put into your oceans or feed to the shark!
- Point to the fourth step icon card.
- Pick a Plus/Minus card.
- Go to the addition steps or subtraction steps depending on which card was picked.
- To make the math and executive function (EF) easier, focus only on addition (include only addition cards).
- To make the math and executive function (EF) harder, focus on addition and subtraction (include both addition and subtraction cards).


## Addition Steps

- Plus 1! That means one more fish is going to swim into your ocean. But remember, these fish are so little they can't swim very far. So they have to swim into the pond first.
- Everyone put one fish in your pond.
- Now, everyone ask your partner, "Am I right?" Partners, you check to make sure your friend has the right number of fish in their pond.
- Now your fish are going to jump into your oceans! But, remember, the water is muddy and we can't see them, so we have to put them under the cloth.
- Point to the fifth ADDITION step icon card.
- Show the +1 Plus/Minus card.
- To make the math easier, add only one fish at a time.
- To make the math harder, add more fish, for example, 2, 3, or more fish.

Or introduce terms such as sum and plus.

- Point to the sixth ADDITION step icon card.
- Encourage children to check each other, correcting as necessary.
- Point to the seventh ADDITION step icon card.
- Have children move the fish from their plates to their oceans, under the cloth.
- How many fish are in your ocean now? How do you know?
- Point to the eighth ADDITION step icon card.
- Children Think-Pair-Share with a partner to determine how many fish are in their oceans now.
- To make the executive function (EF) easier, use the Think-PairShare cards.

Briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again.

- To make the math harder, have children articulate exactly what mathematics they performed-including what they started with, what they added, and the result.
- To make the executive function (EF) harder, omit the Think-PairShare cards.
- Point to the ninth ADDITION step icon card.
- Verbalize the starting number and the number added.
- Children remove the cloth from their ocean to verify how many are in their ocean now.
- To make the math easier, if the starting number gets too high for children after play has begun, simply remove all of the fish to restart with 0 .
- To make the math and executive function (EF) easier, use a number path ( $0-5,0-10$, or 0-20 depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate adding.

Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part added).

- To make the math and executive function (EF) harder, ask prompting questions throughout the activity (e.g., "You have 3 fish, but want 6 . How many more do you need? Or how many more do you need to add?").
- Point to the third step icon card.
- Place the cloth over the remaining fish on the ocean board.


## Subtraction Steps

- The big shark is so happy to have four small fish. They're so hungry! Let's find out how many fish it's going to eat...
- Minus two! That means we take away two fish from the ocean to feed to the shark!
- Point to the fourth step icon card.
- Select one card from the Plus/Minus cards.
- REMEMBER... if children are not yet ready for subtraction, stick with addition only.
- Point to the fifth SUBTRACTION step icon card.
- Flip over the -2 Plus/Minus card.
- NOTE: If the number being subtracted is too large for the number of fish left in the ocean, choose another plus/minus card, saying something such, "Oh, no! Our card says the shark is going to eat three fish, but we only have two fish left. We don't have that many fish in our ocean. Let's pick another card."
- To make the math easier, subtract only one fish at a time.
- To make the math harder, Subtract more fish, for example, 2, 3, or more fish.

Or introduce terms such as minus and difference.

- Point again to the fifth SUBTRACTION step icon card.
- Keeping the cloth on the ocean and the fish covered, children remove two fish from their ocean to the checking plate.
- Point to the sixth SUBTRACTION step icon card.
- Encourage children to check each other, correcting as necessary.
- Point to the seventh SUBTRACTION step icon card.
- Have children move the fish from their checking plates to the shark's mouth.

How many fish are in your ocean now? How do you know?

- Point to the eighth SUBTRACTION step icon card.
- Children Think-Pair-Share with a partner to determine how many fish are in the ocean now.
- To make the executive function (EF) easier, briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again.
- To make the math and executive function (EF) harder, have children articulate exactly what mathematics they performed-including what they started with, what they subtracted, and the result.
- Point to the ninth SUBTRACTION step icon card.
- Verbalize the starting number and the number subtracted.
- Remove the cloth to "clear the mud" and verify how many are in the ocean now.
- To make the math and executive function (EF) easier, use a number path ( $0-5,0-10$, or 0-20 depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate subtracting.

Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part removed).

- To make the math and executive function (EF) harder, ask prompting questions throughout the activity (e.g., "You have four fish but want two. How many more do you need to take away [or subtract]?").
- Keep playing, adding and subtracting fish as time allows.
- Let's play some more!


## Summary of Activity Adaptations

This is a summary of all the available adaptations to make Cookie Game easier or harder to accommodate the needs of your students. Whether the adaptation is easier or harder depends on each student's math or executive function (EF) skills.

|  | Make It Easier | Make It Harder |
| :---: | :---: | :---: |
| Math | - If children struggle starting the game with 3 fish, start with a smaller number. <br> - Add only one fish at a time. <br> - If the starting number gets too high for children after play has begun, simply remove all of the fish to restart with 0 . <br> - Subtract only one fish at a time. | - Start the game with a larger number (>3) of fish. <br> - Add more fish, for example, 2, 3, or more fish. <br> - Have children articulate exactly what mathematics they performed-including what they started with, what they added, and the result. <br> - Subtract more fish, for example, 2, 3, or more fish. <br> Or introduce terms such as minus and difference. |
| EF | - Use the Step Icon cards. <br> - Use a counting card to label the number of fish children have in their ocean to help them remember. <br> - Use the Think-Pair-Share cards. <br> - Briefly remove the cloth to allow children to look at the number of fish in their oceans, count them as a group, then cover them up again. | - Omit the Step Icon cards. <br> - Omit the Think-Pair-Share cards. |


|  | Make It Easier | Make It Harder |
| :---: | :---: | :---: |
| Math \& EF | Focus only on addition (include only addition cards). <br> - Use a number path (0-5, 0-10, or 0-20 depending on children). Mark the initial number with a chip. "Jump" your finger to visually demonstrate adding. <br> Model counting (with fish, counters, or fingers), keeping the two parts separate (the starting set and the part added). | - Focus on addition and subtraction (include both addition and subtracting cards). <br> - Ask prompting questions throughout the activity (e.g., "You have 3 fish, but want 6 . How many more do you need? Or how many more do you need to add?"). <br> - Have children articulate exactly what mathematics they performed-including what they started with, what they subtracted, and the result. <br> - Ask prompting questions throughout the activity (e.g., "You have four fish but want two. How many more do you need to take away [or subtract]?") |

## Explore The Executive Function And Math Skills In This Activity

Visit the website for resources to support teaching this activity.

## What to Do Next

Did some students need more support or more challenge? Don't forget to try out some of the adaptations provided above for Small Group. Continue working in small groups with teacher support until students can comfortably play with minimal teacher guidance. Then have students practice the activity independently in centers.

Provide each child with fish counters, an ocean image, a dark cloth or paper, and a small pond (plate). Children take turns drawing a card to determine how many fish to help get into the ocean (addition) or how many will be eaten by the shark (subtraction). After drawing a card, children move the fish to their checking plate, then their partner checks to make sure they have the correct number. Children then cover their oceans with the cloth so they cannot see the fish. Both children then move the fish from their checking plate to the ocean (under the cloth) or shark. Children discuss how many fish are in their oceans now, without peeking under the cloth. They then remove the cloth to check. The other child draws a card and play continues.
Primary
Objectives Producing and understanding number combinations of totals to 5 or more.

- Developing an understanding of addition and subtraction problems with numbers up to 5 or more.

Materials - Ocean picture (1 for each child)

- Checking plate ("pond"; 1 for each child)
- Small bowl (1 for each child)
- Fish counters ( $\sim 10$ for each child)
- Cloth or piece of paper (1 for each child)
- Shark box (1 per small group)
- Counting cards (one set; see Summary of Activity

Adaptations for other counting card options) - 0-10 numeral and dot

- Plus/Minus cards (1 set)
- Number Path (one; see Summary of Activity Adaptations for other number path options) - 0-5, 0-10, or 0-20 path
- Step icons


## How to Play

 the ActivityFor small groups, we suggest four children arranged in pairs of two with a teacher present to provide guidance. The activity steps icons below outline the steps of the activity. Print these icons as cards and share them to help children remember the steps. They're also a helpful scaffold for children!


## Setup



## Step 1

Children choose a counting card that determines the starting number of fish and all children place that many fish in their oceans.

Children ask their partners, "Am I right?" Children check

## Step 3

Children cover their oceans with the cloth and select one face-down Plus/Minus card.

## Step 2

 one another.

## Addition



## Step 1

Children state how many fish are to be added or subtracted based on the Plus/Minus card selected (e.g., +1 ).

## Step 3

Children ask their partners, "Am I right?" Children check one another.

## Step 5

Children state/discuss how many fish are in the ocean now and how they know (without looking under the cloth).


## Step 2

Children "jump" that many fish from their bowl and into their checking pond (small plate).

## Step 4

Children "jump" their fish from their checking pond into their ocean (under the cloth).

## Step 6

Children remove the cloth from their ocean to check how many fish are still in their ocean.


## Subtraction



## Step 3

Children ask their partners, "Am I right?" Children check one another.


## Step 5

Children state/discuss how many fish are in the ocean now and how they know (without looking under


## Step 4

Children "jump" their fish from their checking pond into the shark's mouth.

## Step 6

Children remove the cloth from their ocean to check how many fish are still in their ocean.


## Step 2

Children "jump" that many fish from their ocean and into the checking pond, without removing the cloth.
 the cloth).

## Introduce the Activity

- Today, the Big Fish Story game we've been playing together will be at [name] Center!
- Tell students that the activity will be in Centers to play on their own. We recommend playing the activity in Small Groups at least once before introducing it in Centers.
- To make the math easier, start with a smaller number of fish - that is, only include counting cards with smaller numbers (e.g., 1 or 2).

Include only $+/-1$ cards so children only add or subtract one fish at a time.

- To make the math and executive function (EF) easier, focus on addition only (include only addition cards).
- To make the math harder, start with a larger number of fish - that is, include counting cards with larger numbers (e.g., 3 or more).

Include both addition and subtraction cards.
Include only $+/-$ cards with larger numbers (e.g., $+/-2$ or $+/-3$ ).

- To make the math and executive function (EF) harder, focus on addition and subtraction (include both addition and subtraction cards).
- Display the activity step lions.
- You will have picture cards to help you remember how to play.


## Time to Play!

- Let's remind ourselves how to play the game!

Review the steps of the activity while referencing the Step Icons.

- When reviewing the Step Icons, tell children that they will be choosing the counting card in Step \#3 instead of the teacher (as it was done in whole group and small group previously).
- To make the executive function (EF) easier, use the Step Icons.
- To make the executive function (EF) harder, omit the Step Icons.


## Summary of Activity Adaptations

This is a summary of all the available adaptations to make Cookie Game easier or harder to accommodate the needs of your students. Whether the adaptation is easier or harder depends on each student's math or executive function (EF) skills.

|  | Make It Easier | Make It Harder |
| :---: | :--- | :--- |
| Math | - Start with a smaller number of fish - that <br> is, only include counting cards with smaller <br> numbers (e.g., 1 or 2). <br> Include only $+/-1$ cards so children add or <br> subtract only one fish at a time. | - Start with a larger number of fish - that <br> is, include counting cards with larger <br> numbers (e.g., 3 or more). <br> Include only $+/-$ cards with larger numbers <br> (for example, $+/-2$ or $+/-3$ ). |
| EF | - Use the Step Icons. | Omit the Step Icons. |

## Explore The Executive Function And Math Skills In This Activity

Visit the website for resources to support teaching this activity.

## What to Do Next

Keep playing this activity in Centers throughout the year. Students who played the Visible Ocean version may switch to the Hidden Ocean version once they've been introduced to it in Small Group and and count forward or back from a number other than one without support and demonstrate a knowledge of number combinations to five or more.

Do some students need more support or more challenge? Try the adaptations provided above for Centers

