

Body & Brain



Body & Brain



Body & Brain



Body & Brain

**Babies** 

**Babies** 

**Babies** 

Babies

Babies are learning to trust the world and the adults who care for them. Make sure to keep your word and follow through on your promises whenever possible - and when you can't, explain why.

Babies are learning to trust the world and the adults who care for them. Make sure to keep your word and follow through on your promises whenever possible - and when you can't, explain why.

Babies are learning to trust the world and the adults who care for them. Make sure to keep your word and follow through on your promises whenever possible - and when you can't, explain why.

Babies are learning to trust the world and the adults who care for them. Make sure to keep your word and follow through on your promises whenever possible - and when you can't, explain why.

Research shows that stress and hardship make it difficult for the brain to learn and grow. Consistency in adult behavior helps children understand they can trust the people and things in the world around them, making it safe for them to learn and grow.

#### Bay Area Discovery





## Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Consistency in adult behavior helps children understand they can trust the people and things in the world around them, making it safe for them to learn and grow.

Bay Area Discovery Museum



# Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Consistency in adult behavior helps children understand they can trust the people and things in the world around them, making it safe for them to learn and grow.

# Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Consistency in adult behavior helps children understand they can trust the people and things in the world around them, making it safe for them to learn and grow.













Body & Brain



Body & Brain



Body & Brain



Body & Brain

### **Babies**

#### **Babies**

### **Babies**

#### Babies

Talk out loud while making decisions to help children understand how the process works.

"I could have coffee or tea this morning. I want to save the coffee for Grandma so I will drink tea." Talk out loud while making decisions to help children understand how the process works.

"I could have coffee or tea this morning. I want to save the coffee for Grandma so I will drink tea." Talk out loud while making decisions to help children understand how the process works.

"I could have coffee or tea this morning. I want to save the coffee for Grandma so I will drink tea." Talk out loud while making decisions to help children understand how the process works.

"I could have coffee or tea this morning. I want to save the coffee for Grandma so I will drink tea."

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



# Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



#### For more ideas, visit BADM.org/Activities

## Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.



Bay Area Discovery Museum



# Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.









Body & Brain



Body & Brain



Body & Brain



Body & Brain

**Toddlers** 

**Toddlers** 

**Toddlers** 

**Toddlers** 

Making plans together helps children build planning and decision-making skills.

> "Do you want to go to the park or the library first?"

Making plans together helps children build planning and decision-making skills.

> "Do you want to go to the park or the library first?"

Making plans
together helps children
build planning and
decision-making skills.

"Do you want to go to the park or the library first?" Making plans together helps children build planning and decision-making skills.

"Do you want to go to the park or the library first?"

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



# Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum

#### For more ideas, visit BADM.org/Activities

# Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



# Body & Brain

Planning, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.









Body & Brain



Body & Brain



Body & Brain



Body & Brain

#### **Toddlers**

#### **Toddlers**

### **Toddlers**

#### **Toddlers**

Young children can become very upset when parents/guardians leave them with others (even other family members). Reassure children that you will return to them and that you trust the adults that will care for them while you are away.

Young children can become very upset when parents/guardians leave them with others (even other family members). Reassure children that you will return to them and that you trust the adults that will care for them while you are away.

Young children can become very upset when parents/guardians leave them with others (even other family members). Reassure children that you will return to them and that you trust the adults that will care for them while you are away.

Young children can become very upset when parents/guardians leave them with others (even other family members). Reassure children that you will return to them and that you trust the adults that will care for them while you are away.

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.





## Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.





Bay Area Discovery Museum

Body & Brain

Research shows that

stress and hardship make

it difficult for the brain

to learn and grow. Adults

providing comfort during

times of stress supports

children to rebound from

difficulty without harming



# Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.



development.









Body & Brain



Body & Brain



Body & Brain



Body & Brain

#### Preschoolers

#### **Preschoolers**

#### **Preschoolers**

#### **Preschoolers**

Children's memory is still developing, so it's best to limit directions to two to three steps at a time for 3- to 5-year-olds.

"Please go get your green jacket. Then get your lunchbox from the table."

Children's memory is still developing, so it's best to limit directions to two to three steps at a time for 3- to 5-year-olds.

"Please go get your green jacket. Then get your lunchbox from the table." Children's memory is still developing, so it's best to limit directions to two to three steps at a time for 3- to 5-year-olds.

"Please go get your green jacket. Then get your lunchbox from the table." Children's memory is still developing, so it's best to limit directions to two to three steps at a time for 3- to 5-year-olds.

"Please go get your green jacket. Then get your lunchbox from the table."

Memory, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



# Body & Brain

Memory, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.



Bay Area Discovery Museum



#### For more ideas, visit BADM.org/Activities

## **Body & Brain**

Memory, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.







# Body & Brain

Memory, self-control, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.







Body & Brain



Body & Brain



Body & Brain



Body & Brain

#### **Preschoolers**

#### **Preschoolers**

### **Preschoolers**

#### **Preschoolers**

Show children how to respond to their body's needs. You might say,

"My stomach is growling. I think I need a snack."

"I'm grumpy tonight because I didn't sleep well. I think I need to go to bed early." Show children how to respond to their body's needs. You might say,

"My stomach is growling. I think I need a snack."

"I'm grumpy tonight because I didn't sleep well. I think I need to go to bed early." Show children how to respond to their body's needs. You might say,

"My stomach is growling. I think I need a snack."

"I'm grumpy tonight because I didn't sleep well. I think I need to go to bed early." Show children how to respond to their body's needs. You might say,

"My stomach is growling. I think I need a snack."

"I'm grumpy tonight because I didn't sleep well. I think I need to go to bed early."

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.





## Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.



Bay Area Discovery Museum



## it difficult for the brain

Research shows that

stress and hardship make to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.

**Body & Brain** 



Bay Area Discovery Museum



## **Body & Brain**

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.







Body & Brain



Body & Brain



Body & Brain



Body & Brain

### **Early Elementary**

## **Early Elementary**

## **Early Elementary**

**Early Elementary** 

Giving kids specific, special responsibility can help them with self-control and focus.

"You are the big kid here, and I'm putting you in charge. Make sure your brother stays close." Giving kids specific, special responsibility can help them with self-control and focus.

"You are the big kid here, and I'm putting you in charge. Make sure your brother stays close." Giving kids specific, special responsibility can help them with self-control and focus.

"You are the big kid here, and I'm putting you in charge. Make sure your brother stays close." Giving kids specific, special responsibility can help them with self-control and focus.

"You are the big kid here, and I'm putting you in charge. Make sure your brother stays close."

Self-control, focus, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



## Body & Brain

Self-control, focus, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.

#### Bay Area Discovery Museum



## Body & Brain

Self-control, focus, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.



Bay Area Discovery Museum



## Body & Brain

Self-control, focus, and attention are skills that children develop through practice and experience. Children who show strong early development of these skills are more likely to do well in school.









Body & Brain



Body & Brain



Body & Brain



Body & Brain

## **Early Elementary**

## **Early Elementary**

## **Early Elementary**

**Early Elementary** 

Tell children about a time when you were frustrated and worked through it.

"I once baked cookies that tasted horrible, but instead of getting upset, I asked your grandparents to help with a new recipe." Tell children about a time when you were frustrated and worked through it.

"I once baked cookies that tasted horrible, but instead of getting upset, I asked your grandparents to help with a new recipe." Tell children about a time when you were frustrated and worked through it.

"I once baked cookies that tasted horrible, but instead of getting upset, I asked your grandparents to help with a new recipe." Tell children about a time when you were frustrated and worked through it.

"I once baked cookies that tasted horrible, but instead of getting upset, I asked your grandparents to help with a new recipe."

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.

#### Bay Area Discovery Museum



# Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.

#### Bay Area Discovery Museum



Bay Area Discovery Museum

Body & Brain

Research shows that

stress and hardship make

it difficult for the brain

to learn and grow. Adults

providing comfort during

times of stress supports

children to rebound from

difficulty without harming

# Body & Brain

Research shows that stress and hardship make it difficult for the brain to learn and grow. Adults providing comfort during times of stress supports children to rebound from difficulty without harming development.



development.









Talk & Play



Talk & Play



Talk & Play



Talk & Play

### Babies

#### **Babies**

### Babies

#### Babies

Ask babies a lot
of questions
and pause to let
them respond,
even if they can't
answer verbally.
Acknowledge any
response positively,
no matter how
small.

Ask babies a lot
of questions
and pause to let
them respond,
even if they can't
answer verbally.
Acknowledge any
response positively,
no matter how
small.

Ask babies a lot of questions and pause to let them respond, even if they can't answer verbally. Acknowledge any response positively, no matter how small.

Ask babies a lot of questions and pause to let them respond, even if they can't answer verbally. Acknowledge any response positively, no matter how small.

Back and forth interactions with babies help them understand how social interactions work. Throughout life, social skills matter: children who get along well with others are more likely to graduate from high school and less likely to get in trouble.

#### Bay Area Discovery Museum



# Talk & Play

Back and forth interactions with babies help them understand how social interactions work. Throughout life, social skills matter: children who get along well with others are more likely to graduate from high school and less likely to get in trouble.

Bay Area Discovery Museum



get in trouble.

Bay Area Discovery Museum

Talk & Play

Back and forth interactions

Throughout life, social skills

matter: children who get

along well with others are

more likely to graduate from

high school and less likely to

with babies help them

understand how social

interactions work.



## Talk & Play

Back and forth interactions with babies help them understand how social interactions work. Throughout life, social skills matter: children who get along well with others are more likely to graduate from high school and less likely to







get in trouble.







Talk & Play



Talk & Play



Talk & Play



Talk & Play

**Babies** 

**Babies** 

Babies

Babies

Respond to infants' and toddlers' sounds and gestures – this is their way of communicating with you!

Respond to infants' and toddlers' sounds and gestures – this is their way of communicating with you!

Respond to infants' and toddlers' sounds and gestures – this is their way of communicating with you!

Respond to infants' and toddlers' sounds and gestures – this is their way of communicating with you!

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.





# Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.





#### For more ideas, visit BADM.org/Activities

## Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.



Bay Area Discovery Museum



# Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.







Talk & Play



Talk & Play



Talk & Play



Talk & Play

#### **Toddlers**

#### **Toddlers**

### **Toddlers**

#### Toddlers

Pay attention when children notice other children, and help them as needed.

"Oh, do you see her shovel? Would you like a turn playing with it when she is finished?" Pay attention when children notice other children, and help them as needed.

"Oh, do you see her shovel? Would you like a turn playing with it when she is finished?" Pay attention when children notice other children, and help them as needed.

"Oh, do you see her shovel? Would you like a turn playing with it when she is finished?" Pay attention when children notice other children, and help them as needed.

"Oh, do you see her shovel? Would you like a turn playing with it when she is finished?"

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Guiding and encouraging opportunities to work through conflicts helps children learn social skills.

#### Bay Area Discovery Museum





## Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Guiding and encouraging opportunities to work through conflicts helps children learn social skills.



Bay Area Discovery Museum



# Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Guiding and encouraging opportunities to work through conflicts helps children learn social skills.



Bay Area Discovery Museum



## Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Guiding and encouraging opportunities to work through conflicts helps children learn social skills.









Talk & Play



Talk & Play



Talk & Play



Talk & Play

#### **Toddlers**

#### **Toddlers**

#### Toddlers

#### **Toddlers**

Try describing objects around you using as many words as you can think of:

"This lily is tall, smooth, and silky to touch. It has white and purple petals with a pale green stem and leaves."

Try describing objects around you using as many words as you can think of:

"This lily is tall, smooth, and silky to touch. It has white and purple petals with a pale green stem and leaves."

Try describing objects around you using as many words as you can think of:

"This lily is tall, smooth, and silky to touch. It has white and purple petals with a pale green stem and leaves."

Try describing objects around you using as many words as you can think of:

"This lily is tall, smooth, and silky to touch. It has white and purple petals with a pale green stem and leaves."

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.

#### Bay Area Discovery Museum



# Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.





#### For more ideas, visit BADM.org/Activities

## Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.







## Talk & Play

Adults can boost children's vocabulary through the interactions we have, the questions we ask (even if they can't answer verbally yet!), and the variety of experiences we provide.









Talk & Play



Talk & Play



Talk & Play



Talk & Play

Preschoolers

**Preschoolers** 

**Preschoolers** 

**Preschoolers** 

It's important for children to learn how to play with others. Set up play dates with friends, or visit the library or the park.

It's important for children to learn how to play with others. Set up play dates with friends, or visit the library or the park.

It's important for children to learn how to play with others. Set up play dates with friends, or visit the library or the park.

It's important for children to learn how to play with others. Set up play dates with friends, or visit the library or the park.

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble.





# Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble.



Discovery Museum



#### For more ideas, visit BADM.org/Activities

# Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble.



Bay Area Discovery Museum



# Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble.







Talk & Play



Talk & Play



Talk & Play



Talk & Play

### Preschoolers

### **Preschoolers**

#### **Preschoolers**

#### **Preschoolers**

Help children build a strong vocabulary by using complex words around them. Talk with your children in whatever language you feel most confident.

"How stable can you make your block tower?"

"Please be gentle with that fragile object."

Help children build a strong vocabulary by using complex words around them. Talk with your children in whatever language you feel most confident.

"How stable can you make your block tower?"

"Please be gentle with that fragile object."

Help children build a strong vocabulary by using complex words around them. Talk with your children in whatever language you feel most confident.

"How stable can you make your block tower?"

"Please be gentle with that fragile object."

Help children build a strong vocabulary by using complex words around them. Talk with your children in whatever language you feel most confident.

"How stable can you make your block tower?"

"Please be gentle with that fragile object."

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.





## Talk & Play

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.



Bay Area Discovery Museum



Bay Area Discovery Museum

Talk & Play

The more words children

know, the more complex

Adults can boost children's

conversations we have, the

questions we ask, and the

variety of experiences we

vocabulary through the

their thinking can be.

# Talk & Play

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.



provide them.









Talk & Play



Talk & Play



Talk & Play



Talk & Play

### **Early Elementary**

Children in elementary school are ready to learn about more complicated emotions (e.g., pride, embarrassment, pity).
Use characters in books and movies to discuss these emotions.

"Why is this character feeling this way? What would you do if you were in that situation?"

## **Early Elementary**

Children in elementary school are ready to learn about more complicated emotions (e.g., pride, embarrassment, pity).

Use characters in books and movies to discuss these emotions.

"Why is this character feeling this way? What would you do if you were in that situation?"

## **Early Elementary**

Children in elementary school are ready to learn about more complicated emotions (e.g., pride, embarrassment, pity).

Use characters in books and movies to discuss these emotions.

"Why is this character feeling this way? What would you do if you were in that situation?"

## **Early Elementary**

Children in elementary school are ready to learn about more complicated emotions (e.g., pride, embarrassment, pity).

Use characters in books and movies to discuss these emotions.

"Why is this character feeling this way? What would you do if you were in that situation?"

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Help children understand that others' thoughts and emotions are different from their own.

#### Bay Area Discovery Museum

## Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Help children understand that others' thoughts and emotions are different from their own.

Bay Area Discovery Museum



# Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Help children understand that others' thoughts and emotions are different from their own.



Bay Area Discovery Museum



## Talk & Play

Social skills matter in school. Children who get along well with others are more likely to graduate from high school and less likely to get in trouble. Help children understand that others' thoughts and emotions are different from their own.







Talk & Play



Talk & Play



Talk & Play



Talk & Play

## Early Elementary

## **Early Elementary**

## **Early Elementary**

**Early Elementary** 

Encourage children
to ask a lot of
questions. Don't
worry if you don't
know the answers.
You can say,

"That's a great question. I don't know. How could we find out?" Encourage children to ask a lot of questions. Don't worry if you don't know the answers. You can say,

"That's a great question. I don't know. How could we find out?" Encourage children
to ask a lot of
questions. Don't
worry if you don't
know the answers.
You can say,

"That's a great question. I don't know. How could we find out?" Encourage children to ask a lot of questions. Don't worry if you don't know the answers. You can say,

"That's a great question. I don't know. How could we find out?"

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.

#### Bay Area Discovery Museum



## Talk & Play

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.



Bay Area Discovery Museum



provide them.

Bay Area Discovery Museum

## Talk & Play

The more words children know, the more complex their thinking can be. Adults can boost children's vocabulary through the conversations we have, the questions we ask, and the variety of experiences we provide them.











Talk & Play

The more words children

know, the more complex

Adults can boost children's

conversations we have, the

questions we ask, and the

variety of experiences we

vocabulary through the

their thinking can be.





Science & Math



Science & Math



Science & Math

**Babies** 

**Babies** 

**Babies** 

**Babies** 

During meal times, talk about how many objects are in a group:

"I see you have 2 crackers and 5 carrots on your plate. How many pieces of cheese do you see?" During meal times, talk about how many objects are in a group:

"I see you have 2 crackers and 5 carrots on your plate. How many pieces of cheese do you see?" During meal times, talk about how many objects are in a group:

"I see you have 2 crackers and 5 carrots on your plate. How many pieces of cheese do you see?" During meal times, talk about how many objects are in a group:

"I see you have 2 crackers and 5 carrots on your plate. How many pieces of cheese do you see?"

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday lifein time, distance, size, amount—builds math understanding.

#### Bay Area Discovery Museum



### Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.



Bay Area Discovery Museum



# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.



Bay Area Discovery Museum



### Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.









Science & Math



Science & Math



Science & Math

**Babies** 

**Babies** 

**Babies** 

Babies

Be patient with repetitive play.
Just like scientists, young children naturally repeat their experiments (like dropping spoons over and over from their high chair) to find out if the same thing happens every time.

Be patient with repetitive play.

Just like scientists, young children naturally repeat their experiments (like dropping spoons over and over from their high chair) to find out if the same thing happens every time.

Be patient with repetitive play.
Just like scientists, young children naturally repeat their experiments (like dropping spoons over and over from their high chair) to find out if the same thing happens every time.

Be patient with repetitive play.
Just like scientists, young children naturally repeat their experiments (like dropping spoons over and over from their high chair) to find out if the same thing happens every time.

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.

#### Bay Area Discovery Museum









#### For more ideas, visit BADM.org/Activities

Discovery

Museum

### Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.

## Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.

#### Bay Area Discovery Museum





### Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.









Science & Math



Science & Math



Science & Math

**Toddlers** 

**Toddlers** 

**Toddlers** 

**Toddlers** 

Next time you are waiting for the light at a crosswalk, try asking children,

"How many cars do you think pass by here? Let's count together." Next time you are waiting for the light at a crosswalk, try asking children,

"How many cars do you think pass by here? Let's count together." Next time you are waiting for the light at a crosswalk, try asking children,

"How many cars do you think pass by here? Let's count together." Next time you are waiting for the light at a crosswalk, try asking children,

"How many cars do you think pass by here? Let's count together."

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday lifein time, distance, size, amount—builds math understanding.

#### Bay Area Discovery Museum



## Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.





Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.







## Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.









Science & Math



Science & Math



Science & Math



Science & Math

### Toddlers

#### Toddlers

## **Toddlers**

#### **Toddlers**

Asking young children

"What do you see?"

of observation. You can do this anywhere-out in nature, while driving, or even while shopping. To keep their observations going, follow up with

"Tell me more."

Asking young children

"What do you see?"

builds the science skill of observation. You can do this anywhere-out in nature, while driving, or even while shopping. To keep their observations going, follow up with

"Tell me more."

Asking young children

"What do you see?"

builds the science skill of observation. You can do this anywhere-out in nature, while driving, or even while shopping. To keep their observations going, follow up with

"Tell me more."

Asking young children

"What do you see?"

of observation. You can do this anywhere-out in nature, while driving, or even while shopping. To keep their observations going, follow up with

"Tell me more."

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.

#### Bay Area Discovery Museum





# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.







#### For more ideas, visit BADM.org/Activities

# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.

#### Bay Area Discovery Museum



# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life. In the kitchen, at the park, and in the car. adults can find science learning all around.









Science & Math



Science & Math



Science & Math



Science & Math

#### **Preschoolers**

# Recognizing an amount without counting builds math skills. Try using everyday experiences to practice this with children.

"Without counting, how many chairs do you think are around this table? How many stalls are in this bathroom?"

#### **Preschoolers**

# Recognizing an amount without counting builds math skills. Try using everyday experiences to practice this with children.

"Without counting, how many chairs do you think are around this table? How many stalls are in this bathroom?"

#### **Preschoolers**

# Recognizing an amount without counting builds math skills. Try using everyday experiences to practice this with children.

"Without counting, how many chairs do you think are around this table? How many stalls are in this bathroom?"

#### **Preschoolers**

Recognizing an amount without counting builds math skills. Try using everyday experiences to practice this with children.

"Without counting, how many chairs do you think are around this table? How many stalls are in this bathroom?"

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday lifein time, distance, size, amount—builds math understanding.

#### Bay Area Discovery Museum



# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.

Bay Area Discovery Museum



# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.



Bay Area Discovery Museum



# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size. amount—builds math understanding.









Science & Math



Science & Math



Science & Math



Science & Math

#### **Preschoolers**

## **Preschoolers**

## **Preschoolers**

### Preschoolers

While cooking, give children a kitchen tool that has moving parts (e.g., a can opener, salad spinner, turkey baster). Supervise and ask questions as they play with it.

"How do you think it works? What part(s) cause it to move that way?" While cooking, give children a kitchen tool that has moving parts (e.g., a can opener, salad spinner, turkey baster). Supervise and ask questions as they play with it.

"How do you think it works? What part(s) cause it to move that way?" While cooking, give children a kitchen tool that has moving parts (e.g., a can opener, salad spinner, turkey baster). Supervise and ask questions as they play with it.

"How do you think it works? What part(s) cause it to move that way?" While cooking, give children a kitchen tool that has moving parts (e.g., a can opener, salad spinner, turkey baster). Supervise and ask questions as they play with it.

"How do you think it works? What part(s) cause it to move that way?"

Asking children to explain how things work helps them develop the science and thinking skills they will need throughout life.







# Science & Math

Asking children to explain how things work helps them develop the science and thinking skills they will need throughout life.



Bay Area Discovery Museum

#### For more ideas, visit BADM.org/Activities

# Science & Math

Asking children to explain how things work helps them develop the science and thinking skills they will need throughout life.







# Science & Math

Asking children to explain how things work helps them develop the science and thinking skills they will need throughout life.



Bay Area Discovery Museum





Science & Math



Science & Math



Science & Math



Science & Math

## **Early Elementary**

# **Early Elementary**

# **Early Elementary**

# **Early Elementary**

Let children collect change in a piggy bank or jar. Then, help them figure out how much is there, showing how pennies add up to nickels, nickels add up to dimes, and so forth.

"How much money have you saved? What could you buy with that amount?" Let children collect change in a piggy bank or jar. Then, help them figure out how much is there, showing how pennies add up to nickels, nickels add up to dimes, and so forth.

"How much money have you saved? What could you buy with that amount?" Let children collect change in a piggy bank or jar. Then, help them figure out how much is there, showing how pennies add up to nickels, nickels add up to dimes, and so forth.

"How much money have you saved? What could you buy with that amount?"

Let children collect change in a piggy bank or jar. Then, help them figure out how much is there, showing how pennies add up to nickels, nickels add up to dimes, and so forth.

"How much money have you saved? What could you buy with that amount?"

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday lifein time, distance, size, amount—builds math understanding.

#### Bay Area Discovery Museum







# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.

# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.

#### Bay Area Discovery Museum



# Science & Math

Children who understand and talk about numbers grow into middle school students who are strong at both math AND reading. Seeing and talking about math in everyday life in time, distance, size, amount—builds math understanding.







Bay Area

Museum





Science & Math



Science & Math



Science & Math

**Early Elementary** 

**Early Elementary** 

**Early Elementary** 

**Early Elementary** 

Turn play into engineering learning by asking questions like

"How can you make the base of your block tower more stable?" or "Can you make a bridge that could hold five of your toy cars, even if a big wind came?" Turn play into engineering learning by asking questions like

"How can you make the base of your block tower more stable?" or "Can you make a bridge that could hold five of your toy cars, even if a big wind came?" Turn play into engineering learning by asking questions like

"How can you make the base of your block tower more stable?" or "Can you make a bridge that could hold five of your toy cars, even if a big wind came?" Turn play into engineering learning by asking questions like

"How can you make the base of your block tower more stable?" or "Can you make a bridge that could hold five of your toy cars, even if a big wind came?"

When children explore and learn through science, they build thinking skills they will need throughout life.



Bay Area Discovery Museum



# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life.



Bay Area Discovery Museum



# For more ideas, visit BADM.org/Activities

# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life.



Bay Area Discovery Museum



# Science & Math

When children explore and learn through science, they build thinking skills they will need throughout life.



Bay Area Discovery Museum

