



Sliding and Rolling

Discover that some things roll down ramps
and other things slide.

Day 1 (20–30 minutes)

VIDEO

Snow Daze

Watch Peep, Chirp, and Quack slide
down a snowy hill.



What Your Child Will Learn

Science skills: Observing and describing the way objects move on ramps

Science idea: Some things slide down ramps.

Vocabulary words to practice: slide, sled

What You Need

Video: *Snow Daze* (9 minutes)

What to Do

Sit together so you can talk about the video while you watch.

1. Before you watch, SAY:

- Let's watch Peep and his friends go **sledding** down a snowy hill. It's their first time trying it!

2. After you watch together, ASK:

- Why is **sliding** so fun?
- What did Peep, Chirp, and Beaver Boy find to make sleds?
- Why do you think those things made good **sleds**?



Ask Questions and Talk About Your Ideas

Ask questions to help your child think more about the activity. Start a question by asking “What do you think...?”

ACTIVITY

Toy Sleds

Make toy sleds and watch them slide.



What Your Child Will Learn

Science skills: Observing and describing the way objects move on ramps

Science idea: Discover whether an object rolls, slides, or stays put on a ramp.

Vocabulary words to practice: roll, slide, ramp, collect, flat, round

What You Need

- a large piece of cardboard
- a box, block, or books to prop up the ramp
- flat things: bottle tops, lids, small cardboard pieces (these will be the toy sleds)

What to Do

1. Set up a ramp by leaning one end of the cardboard against a box or block. SAY: *Peep and Chirp went **sledding** in the video. Let's make a hill and **slide** things down it!*



Play and Explore Together

Your attention and encouragement make a big difference!

2. Try one object on the ramp and ASK: *Does this make a good **sled**? Why?*
3. Try the rest of the objects on the ramp. After each slides down, ASK: *What is similar about each **sled**? (Most have **flat** bottoms)*
4. Make the ramp **steeper** and ASK: *Does that change how things **slide**? What happens now?*

Keep Learning!

Look together for other things around the house to make toy **sleds** and try them.



Explore More!

Add new materials to explore in a different way.

Day 2 (20–30 minutes)

VIDEO

Snow Daze

Watch Peep, Chirp, and Quack slide down a snowy hill.



What Your Child Will Learn

Science skills: Observing and describing the way objects move on ramps

Science idea: Discover whether an object rolls, slides, or stays put on a ramp

Vocabulary words to practice: roll, slide, ramp, collect, flat, round

What You Need

Video: *Snow Daze* (9 minutes)

What to Do

Watch the video again to make new discoveries. Talk about what you noticed this time.



Explore More!

Watch again. Children learn new things each time.

ACTIVITY

Roll or Slide?

Discover whether an object rolls, slides, or stays put on a ramp.



What Your Child Will Learn

Science skills: Observing and describing the way objects move on ramps

Science idea: The shape of an object affects whether it will roll or slide.

Vocabulary words to practice: roll, slide, ramp, collect, flat, round

What You Need

- a large piece of cardboard
- a box, block, or books to prop up the ramp
- small objects that roll or slide (toy car, ball, lids or bottle caps)
- things that do not roll or slide (a slightly moist sponge or an eraser)
- 3 pieces of paper
- marker

What to Do

1. Set up a **ramp** by leaning one end of the cardboard against a box, block, or some books.
2. On the 3 pieces of paper, write ROLL, SLIDE, and STAY PUT.
3. Put the objects you **collected** next to the **ramp**.
4. Test each object to see if it rolls, slides, or stays put when you send it down the ramp. ASK: *Did it **roll**, **slide**, or **stay put**?*
5. Read the words on each paper out loud. Have your child put the object on the right piece of paper.



Play and Explore Together

Notice what excites your child — and play along!



Ask Questions and Talk About Ideas

Look at the objects you sorted and discuss. To learn, children need to review what they did.

Talk About What You Learned

Look at the objects on the different sheets. ASK:

- *What is it about these things that made them **slide**? (Most are **flat** and smooth.)*
- *What is it about these things that made them **roll**? (Most are **round**.)*
- *Why do you think some things did not **roll** or **slide**, but just stayed put?*

Keep Learning!

Go outside and try the same activity on a playground **slide** or on another **ramp**. What **slides**? What **rolls**?



Explore More!

Play indoors and outdoors. Explore the same science topic in a different place.

Play, Talk, and Explore More!

Notice what got your child excited about exploring how things **roll** or **slide** down **ramps** this week and think of similar activities to try. The more you play, talk, and explore together, the more you help your child think, learn, and grow.



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