



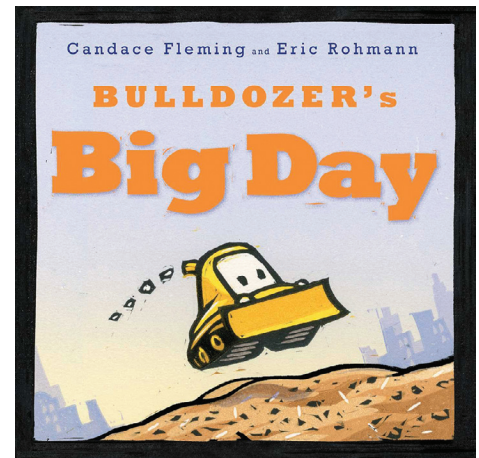
LIBRARY STEAM STORYTIME

Bulldozer's Big Day

appropriate for early elementary and preschool children

Summary

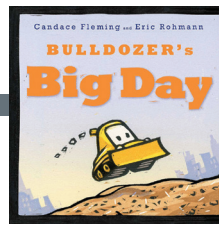
Rally some construction vehicles to help you and your students maneuver through a stimulating STEAM storytime together! Cover the storytime table with sandy brown “dirt” fabric. Consider placing orange safety cones nearby with yellow plastic construction tape around the storytime table to suggest a construction site. These elements help serve as visual clues for the children about the day’s thematic content – help them interpret what they see.



Gather and create the suggested realia items, props, and Discovery Station materials ahead of time so you can use them throughout the program. Patterns and directions are available at www.candacefleming.com and www.ericrohmann.com.

Realia and props

- ▶ Party invitation (from Bulldozer’s “Birthday Event Kit” available for download at www.candacefleming.com and www.ericrohmann.com)
- ▶ Mailbox
- ▶ Three envelopes (with various clues on them regarding their contents) addressed to the storytime group, containing:
 - ❖ Party invitation
 - ❖ Letters “B” and “b”
 - ❖ Recipe for “Concrete Cake”
- ▶ Chef apron
- ▶ Construction worker toy hardhat
- ▶ Kitchen cooking timer or slide whistle (optional)
- ▶ Kitchen utensils: scoop; flour sifter and pan sifter; spoon or hand-held egg beater; rubber scraper; plastic knife; potato masher and/or rolling pin
- ▶ Construction site cardboard box wearable/tabletop theatre (See instructions on page 14.)
- ▶ Narrow table or TV tray table



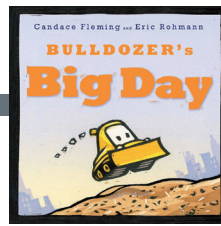
- ▶ Sandy brown “dirt” fabric tablecloth; second matching piece of fabric to hide the tabletop box theatre
- ▶ Large magnet board (24” x 36” or larger) with easel or other support
- ▶ Card stock or stuffed felt Bulldozer cutout with small clip clothespin glued to the back (See instructions for making stuffed felt cutouts on page 14.)
- ▶ Card stock or stuffed felt construction vehicle cutouts with magnets on the back of each vehicle: Digger, Dump Truck, Cement Mixer, Scraper, Grader, Roller, Crane (Crane also needs two small clip clothespins on the back.)
- ▶ Card stock construction vehicle labels, laminated; adhesive magnets on the back
- ▶ Card stock word bubbles with pre-printed text for each vehicle, laminated; adhesive magnets on the back
- ▶ Three-dimensional cake with candles, magnets on the bottom (See instructions on page 17.)
- ▶ “Bulldozer’s Big Day: the Song” action song words written out on grid poster board
- ▶ “Down at the Construction Site” story song words written out on grid poster board
- ▶ Discovery Station equipment and supplies (See page 11.)
- ▶ Supplemental Activities supplies (See page 21.)

Set-up

- ▶ Magnet board to your left (so the construction vehicle cutouts will be facing the correct direction), placed vertically on an easel or stand. Hide the construction vehicle cutouts, vehicle labels, and word bubbles behind the board so you can produce them readily.
- ▶ Small narrow storytime table (e.g., a TV tray table) to your right, with your construction site box theatre on it. Cover the box theatre with a second piece of sandy brown fabric cloth until you are ready to present the theatre to your audience, or the children will want to come forward and peek down inside it!
- ▶ If you plan to follow up your program with the Discovery Stations, set the stations up ahead of time and cover with tablecloths or lengths of fabric until you are ready to introduce them to the group.

Introduction

Say: Before we begin our storytime, I think we had better check our Storytime Mailbox. We may have some mail. (Open mailbox and peer inside; show audience.) Wow! This is more than one envelope. There are ... (count together) ... one, two, three envelopes! Are they all for us? (Read addresses aloud, “To: Storytime Friends, Wherever Public Library / Classroom, Your Town and State and Zip Code.) What could possibly be in them? (Speculate as a group if desired; decipher possible clues on the envelopes.) We had better find out. They may have some important information about today’s storytime.



First envelope:

It's an INVITATION!

You are invited!

What: Bulldozer's Big Day

Where: Right here at the construction site!

When: Today! Right now!

Thank goodness we opened this – we were just in time, weren't we?



Second envelope:

It's a LETTER!

Letter B b (Draw both uppercase and lowercase letters in the air as a group; hold the letter in one hand, and use your other hand to trace the letter correctly from the front so the audience can easily follow your exact motion. Discuss the differences between the uppercase and lowercase shapes, reiterating that they still both represent the same letter.)

(Pick up displayed book *Bulldozer's Big Day*.)

B is for Bulldozer (point to machine's picture, then to the word in the title). B is for Big (point to the word in the title; set book back down).

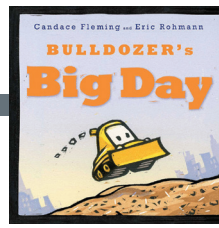
B must be our letter of the day!

Third envelope:

It's a RECIPE ... for CONCRETE CAKE!
(Recipe card)

Concrete Cake! I've never heard of that kind of cake before! (Look at recipe card.)
The ingredients – the things that go into this cake – are (pause and look surprised, read aloud): CONSTRUCTION AGGREGATE – aggregate means a combination of things – made up of SAND and GRAVEL – gravel is like little rocks, DRY CEMENT, and WATER! Hmm, I don't think that is a cake that I would like to eat, but I may have an idea who would ...





Say: Since this seems like it may be turning into a cooking show, we'd better put on aprons (put on chef's apron; then mime putting on an apron and tying it with the audience).

(Pick up *Bulldozer's Big Day* and look at the cover with the audience.) I have a feeling we may want to wear some construction hard hats to protect our heads (put on construction hard hat; also mime doing so with the audience). Okay—I think we're ready! ("Ding" cooking timer or blow slide whistle, if desired.)

Read Aloud

Bulldozer's Big Day by Candace Fleming and Eric Rohmann. Atheneum, 2015.

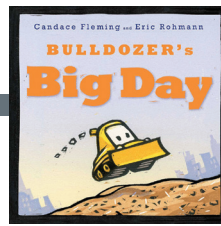
Do: Notice the letter of the day "B" in the words "Bulldozer" and "Big" on the front cover again. Encourage the group to repeat each machine's motions together as you run your finger under the words, e.g. "Scooping ... scooping ... scooping." Likewise, repeat the various word bubble whistles together as a group: say the word yourself clearly while pointing to it, then invite the audience to say it enthusiastically with you several times.

Segue

Say: Bulldozer had quite a few friends there at the construction site, didn't he? Let's see if we can remember each of their names, and what they said and how they moved in our story. Which is the very first vehicle we met? Here it is on the cover of the book! Yes—BULLDOZER! (Hold up Bulldozer cutout.) Bulldozer PUSHES (show the motion with the cutout) dirt and sand around the construction site with his blade. (Clip Bulldozer to the far hill of your construction site box theatre so it is looking toward you and the magnet board.)

Next we see DIGGER truck! (Hold up Digger vehicle cutout and its word label. Place the word label "Digger" on the magnet board near the top, just under where you will place the vehicle cutout, and run your finger under it as you say the word.) Digger SCOOPS (show the motion with your hand, then place the vehicle cutout at the top of the magnet board with its name beneath it). People use tools that are called scoops (show kitchen scoop) to pick up a large amount of something (demonstrate), like ice cream or rice or cereal. You can usually hold more in a scoop than in a spoon. We can also use our HANDS as scoops (demonstrate the motion). Digger says: (Put magnetic word bubble up next to Digger, then run your finger under the words as you say them) "Scoop, scoop, scoop!" Can you say that with me? "Scoop, scoop, scoop!" And the action is (make scooping motion while saying it again) "Scoop, scoop, scoop!" (Remove magnetic word bubble and put it into your box theatre for later on.)

Do: Continue introducing each construction vehicle, naming it with its vehicle label and pointing out the motion it makes then placing it on the magnet board; comparing it to the common kitchen utensil that matches its general purpose as well as the way people can do all of these things just using our bodies; then placing the vehicle's magnetic word bubble next to it and making the attendant motions. Place each



magnetic word bubble into the box theatre after you have said the words together.

- ❖ Dump Truck SIFTS (flour sifter and pan sifter; also sift through fingers)
- ❖ Cement Mixer STIRS (spoon and/or hand-held egg beater; also stir with finger or hand)
- ❖ Scraper FILLS (rubber scraper; also scrape with finger or hand)
- ❖ Grader CHOPS (plastic knife; also chop with side of hand)
- ❖ Roller MASHES (potato masher and/or rolling pin; also use fists or heels of hands)
- ❖ Crane Truck LIFTS (person lifts)



Segue

Say: Our BODIES are machines, like the construction vehicles in Bulldozer's story! That is pretty special. In the song I brought to share with you today, we get to try all of these construction vehicle motions again with MUSIC.

Action Song (Standing)

"Bulldozer's Big Day: the Song"

Note: Song, piano chords, and MP3s with and without voice are available for free download at www.candacefleming.com and www.ericrohmann.com.

CHORUS

I know that you are special, (Gesture out to group.)

And that I'm special too. (Hands in, gesture to self.)

Each one of us has many different things we like to do! (Turn around in a circle; clap once!)

VERSE

Digger truck likes scooping, (Scooping motion with hands)

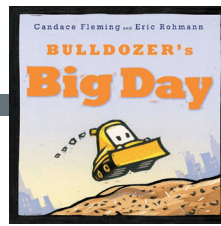
Scooping, scooping, scooping. (Scooping motion)

Digger truck likes scooping, (Scooping motion)

That's what Digger likes to do.

Vrooom! (Roll hands)

Repeat CHORUS



Additional VERSES:

Dump Truck is a SIFTER, Sifting, sifting, sifting . . .

Cement Mixer likes STIRRING . . .

Scraper truck likes FILLING . . .

Grader truck likes CHOPPING . . .

Roller truck likes MASHING . . .

Crane truck likes to LIFT . . .

LAST VERSE

It's Bulldozer's birthday

Hip hip hip hooray!

It's Bulldozer's birthday

It's Bulldozer's big day

Hooray!

Write out the words ahead of time on a piece of grid poster board so attending adults and readers can follow along. Point out to the group that the song is written on the poster. For at least one of the repetitions through the chorus, follow the printed text on the poster with your finger as you sing from left to right to reinforce print directionality as well as the concept that print stands for spoken language.

CANDACE FLEMING
and ERIC ROHMANN

AN ORIGINAL SONG FOR
BULLDOZER'S Big Day

Refrain:
I know that you are special
And that I'm special, too.
Each one of us has many different
things we like to do.

Verse 1:
Digger truck likes scooping,
Scooping, scooping, scooping,
Digger truck likes scooping,
That's what Digger likes to do.
Vroom.....

Additional verses:
Dump truck likes sifting...
Cement truck likes stirring...
Scraper likes filling...
Grader likes chopping...
Roller likes mashing...
Crane likes lifting...

(last verse)
It's Bulldozer's birthday,
Hip, hip, hip, hurrah!
It's Bulldozer's birthday,
It's Bulldozer's big day.
Hurray!

Consider adding verses that feature the children among your participants. If Miguel likes to read, the verse would be:
Miguel likes reading,
Reading, reading, reading,
Miguel likes reading,
That's what Miguel likes to do.

Also available for this song, on either Candace Fleming's or Eric Rohmann's website are:
MP3 recordings:
Heidi Grusch singing the song with piano
Piano only in the key of A
Piano only in the key of G
Sheet music:
Music and text in the key of A
Music and text in the key of G
Piano music in the key of A
Piano music in the key of G

An Original Song for Bulldozer's Big Day by Candace Fleming, illus. by Eric Rohmann (Atheneum, 2016) ISBN 978-1481409378. Copyright © 2015, Candace Fleming and Eric Rohmann. Music and lyrics written by Heidi Haves Grusch. This Song may be copied for classroom or library use but may not be reprinted or resold for commercial purposes. candacefleming.com | ericrohmann.com

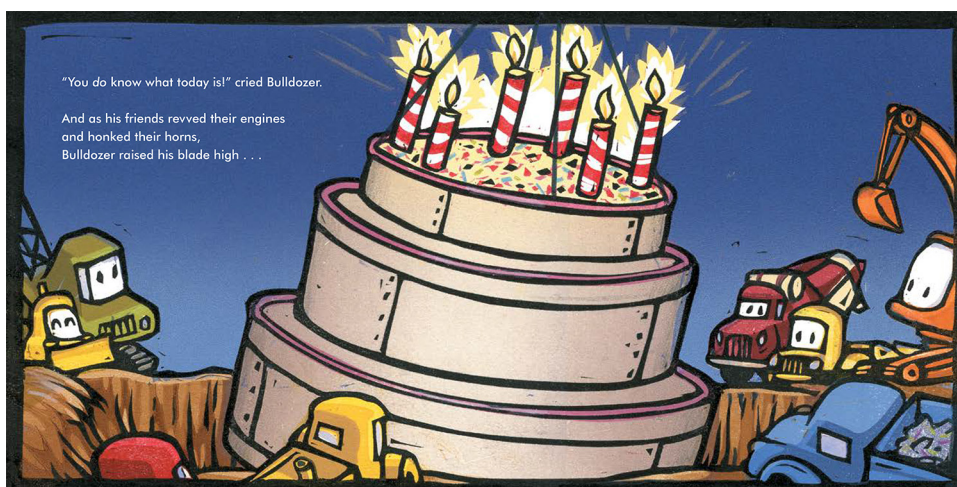
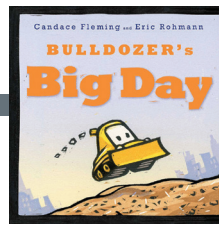


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Segue

Say: You can all park your vehicles by sitting back down. It's finally time for us to bake that cake for Bulldozer! We'll need this (pull out the recipe that arrived in the mailbox) recipe, AND we'll need help from all of our construction vehicle friends. Here is what the recipe says:

Favorite Recipes Concrete Cake

- ❖ Air (6%)
- ❖ 1 mixer full of dry Portland cement (11%)
- ❖ 2 truckloads sand, fine aggregate (26%)
- ❖ 3 truckloads gravel, coarse aggregate (41%)
- ❖ Water (16%)

Stir dry ingredients together, then add water gradually.

Mash the concrete when poured to eliminate air pockets.

Allow to harden and then to cure thoroughly.

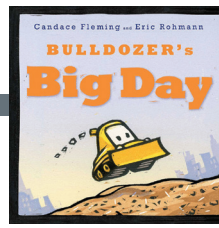
Notes: Bulldozer's favorite!

Retell the Story with Cutouts and Props (Singing)

You'll need to use:

- ▶ Your magnet board
- ▶ Bulldozer card stock or stuffed felt cutout with small clip clothespin
- ▶ Other card stock construction vehicle cutouts with magnets on the back [Crane also has two small clip clothespins on the back] already arranged on the magnet board along with their vehicle labels
- ▶ Wearable/tabletop box theatre
- ▶ Eight motion and whistling word bubbles with magnets on the back inside the box theatre
- ▶ Three-dimensional cake with candles and magnets on the bottom





SET-UP

Write out the song's words ahead of time on a piece of grid poster board so attending adults and readers can follow along. The magnet board will be on your left, with the box theatre directly in front of you on a narrow table [e.g., a TV tray size table] or hanging around your neck. Your three-dimensional cake should be hidden in the box theatre, ready to be produced as a grand finale!

“Down at the Construction Site” Song (Tune: “Down by the Station”)



Do: Before you begin singing, pop up the BULLDOZER cutout and Vroom-zoom it forward and backward along the box theatre hills, then clip it to the front of the box theatre on the hill that is furthest away from the magnet board. Keep the singing at a slow pace--otherwise it's hard to handle the props.

Sing: Down at the construction site, early in the morning

See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)

First comes the DIGGER (Take Digger in your left hand and hold it up), SCOOPING up the gravel - (Show SCOOPING motion with your right hand, as if you are SCOOPING an imaginary load into the box theatre.)

Scoop, scoop, scoop, (Hold up “Scoop, scoop, scoop” word bubble in your right hand, then put it back down into the box theatre.)

Then away it goes! (Return vehicle cutout to its place on the magnet board.)

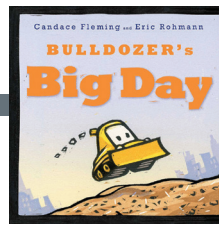
2. Down at the construction site, early in the morning

See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)

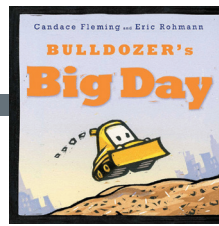
Next comes the DUMP TRUCK (Take Dump Truck in your left hand and hold it up), SIFTING out the aggregate— (Show SIFTING motion with your right hand, as if you are SIFTING into the box theatre.)

Sift, sift, sift, (Hold up “Sift, sift, sift” word bubble in your right hand, then put it back down into the box theatre.)

Then away it goes! (Return vehicle cutout to its place on the magnet board.)



3. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)
Next comes CEMENT MIXER (Take Cement Mixer in your left hand and hold it up), STIRRING 'round the concrete (Show STIRRING motion with your right hand, then pretend to dump Cement Mixer's imaginary load into the box theatre.)
Stir, stir, stir, (Hold up "Stir, stir, stir" word bubble, then put it back down into the box theatre.)
Then away it goes! (Return vehicle cutout to its place on the magnet board.)
 4. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)
Next comes the SCRAPER (Take Scraper in your left hand and hold it up), FILLING up the hopper (Show FILLING motion with your right hand, then pretend to dump Scraper's imaginary load into the box theatre.)
Fill, fill, fill, (Hold up "Fill, fill, fill" word bubble, then put it back down into the box theatre.)
Then away it goes! (Return vehicle cutout to its place on the magnet board.)
 5. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)
Next comes the GRADER (Take Grader in your left hand and hold it up), CHOPPING up the soil (Show CHOPPING motion with your right hand over the box theatre.)
Chop, chop, chop, (Hold up "Chop, chop, chop" word bubble, then put it back down into the box theatre.)
Then away it goes! (Return vehicle cutout to its place on the magnet board.)
 6. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)
Next comes the ROLLER TRUCK (Take Roller in your left hand and hold it up), MASHING down the concrete (Show MASHING motion with your right hand over the box theatre.)
Mash, mash, mash, (Hold up "Mash, mash, mash" word bubble, then put it back down into the box theatre.)
Then away it goes! (Return vehicle cutout to its place on the magnet board.)
- Do:** Zip BULLDOZER forward and back across the hills, then hide it away down in the box theatre.



7. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)

Here is the CRANE TRUCK (Take Crane in your left hand and hold it up.), LIFTING up a birthday cake

Lift, lift, lift, (Hold up “Lift, lift, lift” word bubble, then put it back down into the box theatre.)

And here we go ... (produce hidden birthday cake; finger to lips)



Do: (Pause for dramatic effect to signal there is a change; sing first part quietly.)

8. Down at the construction site, early in the morning
See the great big vehicles, all in a row! (Point to row of vehicles on magnet board.)
Here comes little BULLDOZER (Hold up Bulldozer from inside box theatre), wishing for a party ... (Clip Bulldozer to the box theatre front.) (Hold up “Woot! Feef! Hoot!” word bubble.)
WOOT! FEEF! HOOT! (Put word bubble back down into the box theatre.)

Happy Birthday to you!

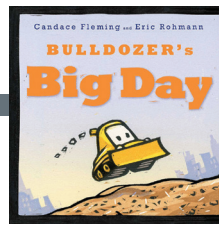
Do: Have Bulldozer make a wish and pretend to blow; remove the candles. Replace Crane Truck on the magnet board and distribute pieces of cake to each of the vehicles. Count the pieces together as you do so. Hold Bulldozer’s piece up and all make eating noises to help Bulldozer “gobble” it down; hide it away inside the box theatre after it is “eaten.”



Conclusion

Say: Bulldozer has had a wonderful birthday storytime celebration, thanks to all of you and to his construction vehicle friends!





Construction Site Discovery Stations

Say: We can keep on celebrating a little bit longer at our Construction Site Discovery Stations! We have [number of how many you choose to include] different stations with lots of materials at each spot. If one area is full, you can go and work at the next construction site until a spot opens up at the first one.

Do: Briefly explain each station before sending your group out to explore them. Encourage discovery and experimentation, measuring, creativity, counting and trying out the various tools available while discussing activities and concepts together.

Bulldozer's Construction Site Discovery Stations

Station 1: SCOOP and SIFT

Help Digger SCOOP and Dump Truck SIFT the pinto bean and rainbow rice "gravel" aggregate.

- ▶ Large metal or plastic trays with an amount of rice and beans in each.
- ▶ Kitchen and sand toy scoops
- ▶ Sifters with a fairly large size mesh (so rice grains but not pinto beans can fit through the holes); you can also make simple sifters with a hole punch and a paper plate
- ▶ Dry pinto beans
- ▶ Rainbow rice "gravel" (See recipe on page 21.)

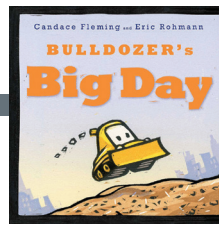


Station 2: MASH and CHOP

Help Grader CHOP and Roller Truck MASH the modeling dough "construction cement".

- ▶ Plastic knives for chopping
- ▶ 1" diameter dowel sections, short lengths of PVC plumbing pipe, or child size rolling pins
- ▶ Potato mashers
- ▶ Miscellaneous cutting and stamping tools
- ▶ Modeling dough "construction cement" (See recipe on page 22.)





Station 3: BUILD and BAKE

BUILD a birthday cake to take home for Bulldozer with your modeling dough “construction cement” and rainbow rice “gravel.” The rice may be mixed into the dough if desired. When finished, pretend to BAKE the cake in the cardboard box oven. Don’t forget to set the oven timer! Add milkshake straw “candles,” and “light” them by inserting a folded-over sparkly gold pipe cleaner in each one. The cake constructions will air dry over time.

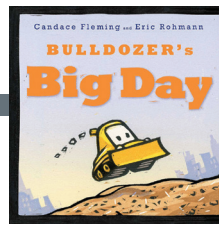
- ▶ Measuring cups and measuring spoons; plastic knives to level the measurements
- ▶ Small foil pot pie / tart pans (to take home with their “cakes”)
- ▶ Toy or cardboard box “oven”
- ▶ Kitchen timers
- ▶ Shortened plastic milkshake straws and sparkly gold pipe cleaners to make “candles”



Station 4: CREATE! Art activity

Design and create a touch-and-feel birthday card for Bulldozer!

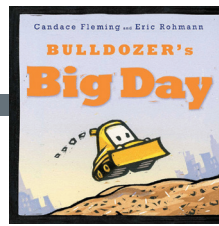
- ▶ Light blue card stock paper
- ▶ Cotton balls
- ▶ Construction paper
- ▶ Wrapping paper
- ▶ Felt
- ▶ Colored tissue paper
- ▶ Pieces of fine grit sandpaper
- ▶ Glue sticks
- ▶ Safety scissors
- ▶ Washable markers and/or crayons



Station 5: DREAM, DESIGN, and DRAW (older students)

Look at some real architects' or engineers' prints, or pictures of what they look like. What would you like to build? Think about all of the parts your dream creation would have and how it might operate, then design and draw each component.

- ▶ Grid paper
- ▶ Blue colored pencils or crayons
- ▶ Golf pencils
- ▶ Blue paper
- ▶ White colored pencils or crayons
- ▶ Rulers
- ▶ Protractors, triangles, corner squares and French curves for tracing
- ▶ Miscellaneous shape stencils



The Storytime Props

Make the Construction Site Cardboard Box Wearable/Tabletop Theatre

You will need:

- ❖ Cardboard box, approximate size 12" wide x 18" long x 10" deep
- ❖ Utility knife
- ❖ Sand-color paint or brown paper
- ❖ Medium-width ribbon or belting, approximately 45" long

Directions:

1. With your utility knife, cut gentle "hills" along the sides and front of your cardboard box.
2. Cut a small opening at each end of the box (if your box has built-in handle openings, that is a good spot to make your cut). This is where you will attach your ribbon/belting to hang the box around your neck.
3. Paint the outside of the box with sand-color paint, or glue on brown paper to approximate the sandy terrain in *Bulldozer's Big Day*.
4. Loop one end of the ribbon/belting through one of the end openings, and tie or hand-stitch it in place. Do the same with the other end.

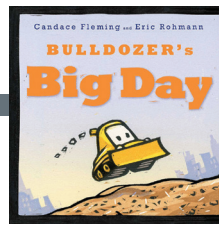


Make Construction Vehicle cutouts— Card Stock OR Stuffed Felt

CARD STOCK VEHICLES

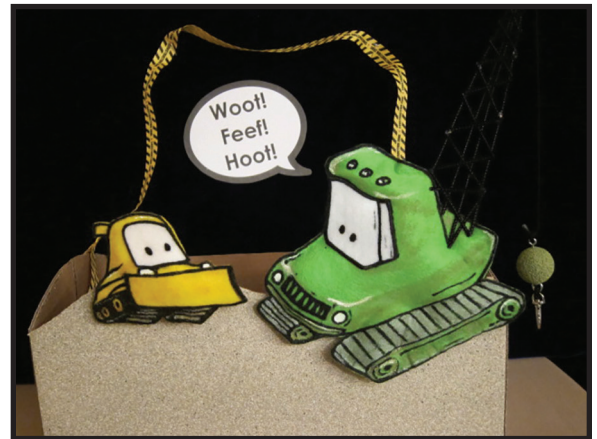
You will need:

- ❖ 8 1/2" x 11" white card stock paper
- ❖ colored pencils, markers, crayons, or paints
- ❖ sharp scissors
- ❖ 3 small size clip clothespins (approximately 1 3/4" long; available at fabric and craft stores)
- ❖ self-adhesive magnets (magnetic business card backing works well)
- ❖ 1 metal brad fastener



Directions:

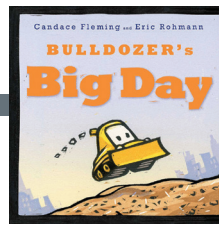
1. Photocopy the construction vehicle patterns onto card stock paper and cut them out.
2. Color the cutouts to match the vehicles in *Bulldozer's Big Day*.
3. Laminate, if desired, for durability.
4. Glue a small size clip clothespin to the center back of your Bulldozer cutout.
5. Affix self-adhesive magnets to all of the other vehicles.
6. In addition to its magnet, Crane Truck also needs two small size clip clothespins at the two outer edges.



STUFFED FELT VEHICLES

You will need:

- ❖ colored felt to match the construction vehicles in *Bulldozer's Big Day*
- ❖ sharp scissors
- ❖ Aleene's® Fast Grab Tacky Glue™
- ❖ Red pipe cleaner (to strengthen Grader)
- ❖ 2 yellow pipe cleaners (to strengthen Digger)
- ❖ 1 metal brad fastener
- ❖ acrylic craft paint or puffy paint: black (for outlining figures)
- ❖ acrylic craft paint or puffy paint: miscellaneous colors (for highlighting figures to match *Bulldozer's Big Day*)
- ❖ small size craft paintbrushes
- ❖ magnets (magnetic business card backing works well; glue the magnets to the felt)
- ❖ polyester fiberfill
- ❖ hand-sewing needle and black thread
- ❖ sturdy black pipe cleaners to construct Crane Truck's latticed boom
- ❖ small wire cutters
- ❖ 2 small screw eyes for Crane Truck



- ❖ small Styrofoam® ball for Crane Truck, size 1 1/2"
- ❖ cold glue gun with glue sticks (or can use hot glue if necessary)
- ❖ black cording or shoelace for Crane Truck, approximately 14" long
- ❖ small metal clip for Crane Truck
- ❖ 3 small size clip clothespins (approximately 1 3/4" long; available at fabric and craft stores)

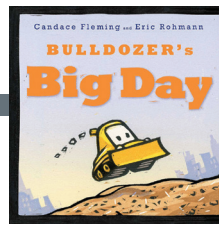
Directions

1. Photocopy the construction vehicle patterns. Pin the vehicle patterns onto double layers of felt and cut out the figures.
2. If you wish to add contrasting felt layers to the vehicles, cut the photocopy pattern apart to the next level. This will enable you to cut out the contrasting pieces separately from the body of the character and then glue them on. Cutting the windshields out of white felt can be especially beneficial as it helps highlight the vehicles' eyes.
3. Glue each character's top and bottom base layers together by drawing a thin line of Tacky craft glue around the edge of the bottom layer of felt and then pressing it together with the top felt layer. Make sure to leave a small opening through which you can later stuff the piece with fiberfill. Reinforce narrow sections (such as Grader and Digger) by gluing a bit of pipe cleaner between the layers. For Digger, make a small loop in the ends of the pipe cleaners that will be connecting the jointed segment. You will be able to stick your brad fastener through the loops when you join the segments.

If the figure has multiple layers, glue all of the layers onto the top base layer and allow the glue to dry completely.

4. After the figures are assembled, paint outlines and highlights onto them with acrylic craft paint. To determine where internal outlines should be drawn, cut the photocopy pattern apart along the outlines and trace onto the felt with a ballpoint pen. Then paint in the lines with your brush. Allow the painted pieces to dry completely.
5. Glue magnets to the center backs of all of the construction vehicles except for Bulldozer. Put a small piece of magnet on Digger's scoop to help support it, as well. Allow the glue to dry completely.





6. Lightly stuff polyester fiberfill between each vehicle's felt layers, then glue the opening shut. Hold the opening together with clip clothespins until the glue dries completely.
7. Take a single stitch here and there along the painted outlines and through all layers of your stuffed felt figures to give them some subtle dimensionality. Pull each stitch tight and tie it off on the back of the cutout. Two or three stitches total for each figure is plenty.
8. Following the pattern lines for Crane Truck's latticed boom, construct a boom from the black pipe cleaners. Make sure to leave some extra pipe cleaner at the top so you can loop it around into a small sturdy circle (you will tie the length of cording to it). Glue the lattice together at the joints. Allow the glue to dry completely.
9. Press the screw eyes into the small Styrofoam® ball, directly opposite each other. Pull the screws back out of the ball. You will need to insert glue into the holes to keep the screws in. Use your glue gun. Cold glue is easiest to use, though you can use hot glue if needed. Keep in mind that hot glue melts Styrofoam®, so be careful and judicious in your application!
10. Paint the Styrofoam® ball green to match Bulldozer's Big Day. Allow the paint to dry completely.
11. Tie one length of the black cording/shoelace to the boom through the pipe cleaner looped circle, and the other to one of the screw eyes in the Styrofoam® ball. Connect the small metal clip to the other screw eye.
12. Glue one small size clip clothespin to the center back of the Bulldozer cutout. Glue the other two clip clothespins to Crane Truck's two outer edges (see photo). The clothespins need to be out at Crane Truck's edges so they don't preclude the magnet from connecting with the magnet board.

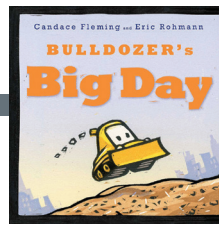
Make a Three-dimensional Bulldozer Birthday Cake Prop with Candles

(Note: There are many ways to make a successful cake prop; this is merely one possibility!)

You will need:

- ❖ 3 Smoothfoam™ / Expandable Polystyrene discs, 6" diameter x 1" thick
- ❖ Aleene's® Fast Grab Tacky Glue™
- ❖ Serrated bread knife

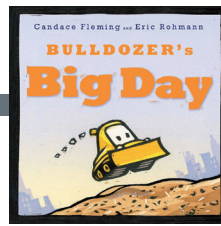




- ❖ Paint brush and craft paint (colors to match the *Bulldozer's Big Day* cake: pale yellow, medium gray, and medium sandy yellow)
- ❖ 8 magnets (each must be strong enough to stick one segment of the foam cake to your magnet board; magnetic backing for business cards works well for this weight)
- ❖ 2 rose pink pipe cleaners
- ❖ Hot or cold glue gun with glue
- ❖ 6 flanged clear nylon bushings (sized for a 1/4" screw – these will be your “candle” holders, so if you are using larger sized straws for your candles you may need a larger size bushing as well) – available at hardware stores
- ❖ Awl
- ❖ Miscellaneous bits of colored foamies OR dried colored clay such as Crayola® Model Magic® modeling compound: yellow, light blue, red, orange, green, black (for gravel “sprinkles” to match the book)
- ❖ 6 sparkly metallic gold pipe cleaners, cut into 7" lengths and then each folded in half
- ❖ 1" x 4" strips of tulle netting – 6 orange, 6 yellow, 6 sparkly gold
- ❖ 3 red-and-white striped paper or plastic drinking straws, cut into a total of six 3 1/4" lengths
- ❖ 1 Springform pan, 6" diameter x 3" deep (or construct your own pan from cardboard)
- ❖ power drill
- ❖ black cording or shoelace, 72" approximate length
- ❖ 1 metal split ring to join the cording at the top where it hooks on to Crane Truck

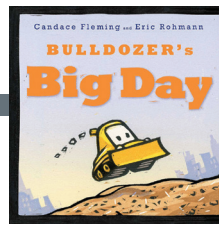
Directions:

1. Stack the three foam discs together and glue the stack with Aleene's® Fast Grab Tacky Glue™. Allow the glue to dry completely.
2. Using your serrated bread knife, cut the glued discs into eight uniform triangular pieces, as if you were cutting a cake.
3. Paint the foam pieces to match the cake slice on the last page of *Bulldozer's Big Day*. Allow the paint to dry completely.



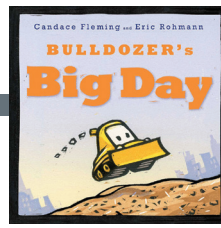
When you open your Springform pan, the three-dimensional Bulldozer Birthday Cake prop will be easy to remove.





4. Glue a generous size piece of magnet to the bottom of each cake slice. (See photo.)
5. Cut the rose pink pipe cleaners into lengths that match the top edges of each of your cake pieces. Hot glue the pipe cleaner to the top edge of each piece, making sure to apply the glue to the pipe cleaner and then affix the stem to the foam. (Hot glue will melt Smoothfoam™/ Expandable Polystyrene and Styrofoam® if applied to it directly.)
6. With your awl, poke 1/2" deep holes in six of the eight foam cake segments. The holes should be just big enough for one of the nylon bushings to slip down into each one. Apply a thin layer of Aleene's® Fast Grab Tacky Glue™ to the outside of each bushing, then insert the bushing into one of the holes. The bushings will function as your candleholders. (See photo.)
7. Use your glue gun to affix your bits of colored foams or dried clay to the top of the cake as gravel "sprinkles" to match the book.
8. Tie the tulle netting to the sparkly gold pipe cleaners approximately 3/4" down from the center fold, one of each color for each stem, so each stem will have three strips tied to it. Twist the bottom lengths of the pipe cleaners, and insert the twisted parts down into each of the straws. These will be your "candles." (Tying the netting a little bit down from the top fold of the candle "flame" allows the knots to be hidden down inside the tube of the straw "candles.")
9. Drill four evenly spaced small holes near the top edge of your Springform pan.
10. Tie the black cording to the pan, using the small holes, to mirror the book illustration. Tie the cords together approximately 12" above the cake pan, and attach them to the metal split ring. This will make it easier to clip the cake onto Crane Truck's clip during the story song.
11. Fit the eight pieces of cake into the pan, and hide it all inside the construction site box theatre. You will be able to lift the pan and its cake contents when it is time to help Crane Truck produce Bulldozer's birthday cake!



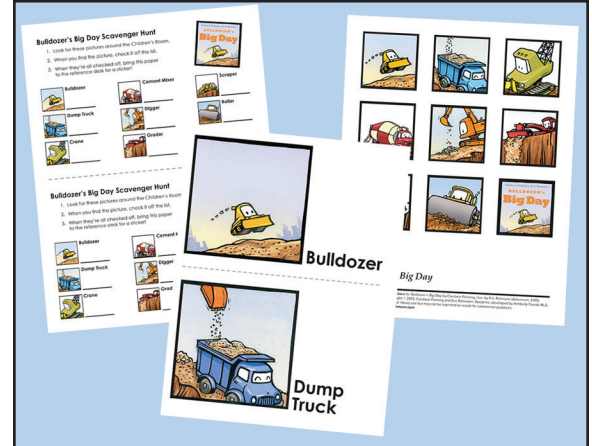


Supplemental Activities

1. Scavenger Hunt - Around the Library or Classroom

Affix the labeled images around the room with clear Vistafoil® Vinyl Laminate or blue painter's tape for the children to find. They can check off each image on the accompanying Scavenger Hunt sheet as they locate it.

- ❖ Printable Scavenger Hunt search-and-find activity with small images and labels (downloadable)
- ❖ "Prize" for completing the Scavenger Hunt – printable stickers. You can print these using Avery 22816 Print-to-the-Edge Square Labels. (downloadable)



2. Take-home Construction Vehicle Cutouts

Copy the construction vehicle illustrations (downloadable) onto card stock and distribute or make them available. Color and cut out the images in your classroom or storytime session, or encourage families to do so at home. Attach movable pieces with metal brad fasteners or with knotted yarn. (Consider affixing sticky-back magnet material to pieces for playtime use on a magnetic surface such as a cookie sheet or the refrigerator if desired; however, be aware of choking hazard considerations for younger children.)

3. Make Rainbow Rice "Gravel"

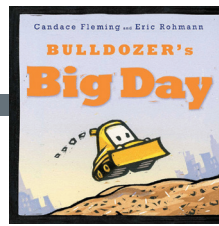
You will need:

- ❖ inexpensive long-grain white rice
- ❖ white vinegar
- ❖ food coloring or icing gels
- ❖ plastic container with lid
- ❖ plastic tray to dry the rice

Measurement proportions are:

- ❖ 1 cup of rice; 1/2 tsp white vinegar; a few drops of food coloring or icing gels





Directions:

1. Measure out the desired amount of rice for your first color and pour it into a container.
2. Add your first color of food coloring and the proportional amount of vinegar, then snap the lid firmly on your container.
3. Shake the container until the rice is evenly colored.
4. Spread the rice out on the tray to dry. Drying time is usually a couple of days.
5. Wipe out your mixing container and proceed with your next color.
6. When dry, your rainbow rice “gravel” will be ready for use in measuring, sensory activities, crafts, and more!

Storage:

Colored rice will keep indefinitely when stored in an airtight container.

7. Make Modeling Dough “Construction Cement”

You will need:

- ❖ 3-1/2 cups flour
- ❖ 1/2 cup of salt
- ❖ 1 tablespoon cream of tartar
- ❖ 2-1/2 tablespoons vegetable oil
- ❖ 2 cups water
- ❖ food coloring or icing gels

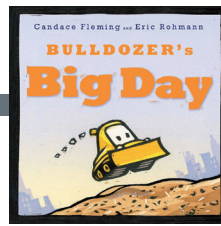


Directions:

1. Mix the dry ingredients (flour, salt, and cream of tartar) together in a bowl and set it aside.
2. Bring the water to a boil. Stir in the oil and food coloring and remove from heat.
3. Mix the hot liquid into the dry ingredients a little at a time until thoroughly mixed.
4. Allow the mixture to cool down, then remove from the bowl and knead it vigorously for several minutes until it is no longer sticky. Add a bit of flour if stickiness persists.

Storage:

The modeling dough may be stored indefinitely in a sealed container at room temperature or in the refrigerator. Dough creations left out in the open air will dry naturally over time.



5. Bake a real cake together!

Use your own favorite yellow cake recipe or a box mix (two box mixes would be needed to make three standard size round cakes) and make a 3-layer cake to look just like Bulldozer's!

Use three round cake pans.

Separate the batter into thirds, and color one third with a bit of black food coloring gel to make the gray colored center layer.

After baking and cooling your three cakes, stick them together with a thin layer of icing between each one.

Frost the very top layer with pale yellow icing and add multi-colored candy sprinkles or chocolate candy rocks or pebbles.

Pipe a line of red icing around the edge of the cake's top layer, or circle it with red shoestring licorice.

Add candles and enjoy together!

