

STEM Bins TEAMBUILDERS ALL YEAR BUNDLE

BACK TO SCHOOL & END OF YEAR



CREATED BY BROOKE BROWN

8 LOW PREP SPRING CHALLENGES

**POLLINATOR
PATTERNS**



BLOOMS AND BLOSSOMS



EGGS IN A BASKET



**LEPRECHAUN
LABYRINTH**



**BUILD A
BIRDHOUSE**



STORM SHELTER



**WHIRLING
WIND**



**HOOP
SHOOT**



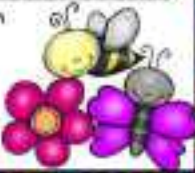
8

SIMPLE SPRING CHALLENGES

POLLINATOR PATTERNS

Can you use pattern blocks to create pollinators and flowers?

Some examples of pollinators are bees, butterflies, and hummingbirds.



POLLINATOR PATTERNS

YOU NEED:

- pattern blocks



BLOOMS & BLOSSOMS

Can you create a flower garden out of pipe cleaners and cups?



BLOOMS & BLOSSOMS

YOU NEED:

- pipe cleaners
- mini cups

LOOK INSIDE A FLOWER



EGGS IN A BASKET

Can you build a basket that will hold the most eggs?



EGGS IN A BASKET

YOU NEED:

- Wooden planks
- plastic eggs

EASTER FACTS



BUILD A BIRDHOUSE

Can you design and create a house to hold the most birds?

How many different designs can you make?



WHY BIRDS STAY



LEPRECHAUN LABYRINTH

Can you create a maze to help the leprechaun find his pot of gold?

Add treasures, dead ends, and obstacles to your maze!



LEPRECHAUN LABYRINTH

YOU NEED:

- dominoes
- paper leprechaun
- paper treasures

TRAP WITH SIMPLE MACHINES



STORM SHELTER

Can you build a shelter that can withstand severe weather?



STORM SHELTER

YOU NEED:

- building bricks

TORNADOES



HOOP SHOOT

Can you build a basketball goal and shoot baskets to try to score the most points?



OF BASKETBALL



WHIRLING WIND

Can you build a working wind turbine?



- Marshmallows & Paper
- Straws
- Playdough



K-1ST GRADE

EGGS IN A BASKET NAME: _____

Draw your basket.



How many eggs does it hold?

HOOP SHOOT NAME: _____

Draw your hoop.



How many baskets did you shoot?

STORM SHELTER NAME: _____

Draw your shelter.

Does it have a roof? YES NO
 Does it have a door? YES NO
 Does it have a window? YES NO

SPRING TEAMBUILDER Reflection NAME: _____


Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

SPRING STEM Bins TEAMBUILDERS

NAME: _____



POLLINATOR PATTERNS NAME: _____

Draw your designs.

2D or 3D 2D or 3D

WHIRLING WIND NAME: _____


Draw your wind turbine.



Does it turn when you blow it? YES NO

BLOOMS & BLOSSOMS NAME: _____

Draw your designs.



BUILD A BIRDHOUSE NAME: _____

Draw your materials.



How many birds can fit in your house?


SPRING TEAMBUILDERS

TEAMBUILDER	FINISHED!
1. POLLINATOR PATTERNS	
2. BLOOMS & BLOSSOMS	
3. STORM SHELTER	
4. LEPRECHAUN LABYRINTH	
5. HOOP SHOOT	
6. EGGS IN A BASKET	
7. WHIRLING WIND	
8. BUILD A BIRDHOUSE	



BUILD A BIRDHOUSE NAME: _____

Draw your birdhouse design.



Which design would you use? 1 2

HOOP SHOOT NAME: _____

Draw your hoop.



Player: _____

2ND-5TH GRADE

STORM SHELTER NAME: _____

Draw your storm shelter design.



Does it have a roof? YES NO
 Does it have a door? YES NO
 Does it have a window? YES NO

EGGS IN A BASKET NAME: _____

Draw your basket design.



How many eggs does it hold?

LEPRECHAUN LABYRINTH NAME: _____


Draw your maze design.



Obstacles: _____

POLLINATOR PATTERNS NAME: _____

Draw your designs.



2D or 3D Design: _____

WHIRLING WIND NAME: _____

Draw your wind turbine design.



Does it turn when you blow it? YES NO

SPRING TEAMBUILDER Reflection NAME: _____


Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

BLOOMS & BLOSSOMS NAME: _____

Draw your designs.



DIFFERENTIATED RECORDING SHEETS

12 LOW PREP BACK TO SCHOOL & END OF THE YEAR CHALLENGES

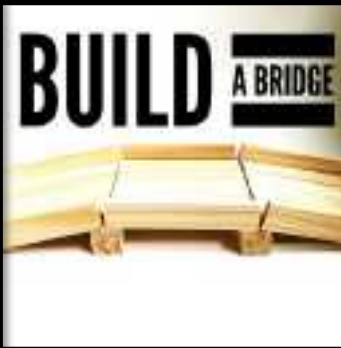
TAKE FLIGHT



TRICKY TOWER



BUILD A BRIDGE



CHAIN REACTION



GOAL GETTER



MIRROR MIRROR



MAZE MANIA



SAFETY NET



SAFE SHELTER



PARKING PLACE



ROCK AND ROLL



LIFE BOAT



K-5TH GRADE

12 SIMPLE CHALLENGES

TAKE FLIGHT

Can you design and create a mini-paper airplane?

Test and measure how far it flies.

YOU NEED:



MAZE MANIA

Can you create a movable maze out of linking cubes?

Make sure that your maze has a start and end. You can also add tunnels, dead ends.

YOU NEED:



LIFE BOAT

Can you use foam balls and toothpicks to create a boat or raft that floats in water?

Try putting crayons or markers on top of your boat.

YOU NEED:



TRICKY TOWER

Can you create the tallest possible freestanding tower out of popsicle sticks with Velcro?

Try putting together different 3D shapes. Which shapes are the strongest?

YOU NEED:



BUILD A BRIDGE

Can you build a bridge that will hold the most weight?

Test its strength by placing different school supplies on top.

Improve your design and test again.

YOU NEED:



MIRROR MIRROR

Can you create the largest possible SYMMETRICAL design out of pattern blocks?

This means that all blocks on one half should mirror those on the other half with an imaginary line called a line of symmetry in the center.

YOU NEED:



SAFE SHELTER

Can you use mini cups to create a fort that completely surrounds a stuffed animal?

YOU NEED:



PARKING PLACE

Can you use base ten blocks to create a parking garage for toy cars?

YOU NEED:



GOAL GETTER

Can you build a hallway hallway game with 2 goals, 2 sticks, and a hockey puck?

Discuss some rules with your group and agree on them.

Play a game of tabletop hockey!

YOU NEED:



CHAIN REACTION

Can you create the longest possible chain reaction out of dominoes?

Try arranging your dominoes in different shapes and facing them different directions.

YOU NEED:



SAFETY NET

Can you create a net out of pipe cleaners?

The net must be strong and large enough to catch a ball of paper.

Use the net and paper ball to play catch with your group!

YOU NEED:



ROCK AND ROLL

Can you create a roller coaster for a marble out of paper rolls and tape?

Use sticks or books to raise and lower the height of your roller coaster.

YOU NEED:



OPTIMISM

having hope and a belief that good

COOPERATION

working together with others to achieve a

EFFORT

trying your best to complete a

SPORTSMANSHIP

Fair and kind behavior in a sport or game, no

PERSEVERANCE

the ability to not give up, even when things get hard

CREATIVITY

the use of your imagination to come up with original ideas or solve a problem in new

PATIENCE

the ability to wait or continue trying without becoming frustrated

ENCOURAGEMENT

the action of giving someone support, confidence, hope

SELF-DISCIPLINE

careful control of your body

EMPATHY

the ability to understand and share someone else's

FLEXIBILITY

willingness to change or consider other's ideas

IMPROVEMENT

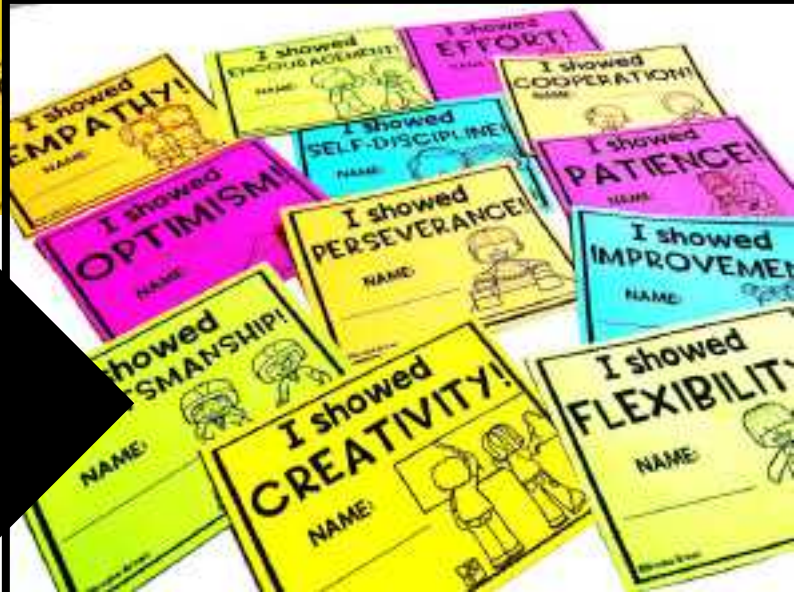
the action of making something better

12 SEL SKILLS



STUDENT RECOGNITION

DIFFERENTIATED
RECORDING
BOOKLETS



8 LOW PREP FALL CHALLENGES



8

SIMPLE FALL CHALLENGES

GOING BATTY

Can you design and create a cave to hold as many bats as possible?

How many bats can hang upside down in your cave?
How many different



SPOOKY SPIDER WEB

Can you design and create a spider web that will stretch across two chairs without falling?

How many spiders will balance on your web without falling?



TREAT TOTE

Can you design and create a bag or container that holds candy and is easy to carry?

How many pieces of candy does it hold?

What other designs can you create?



HAUNTED HOUSE

Can you design and create a haunted house of out mini cups that will hold at least 5 ghosts on top?

How many different designs can you make?



FOOTBALL FUN

Can you create a goal post and paper football and use them to play a game?

How many field goals can you make?



PUMPKIN PATCH

Can you design and create a fence to completely enclose the pumpkin?

What other fence designs and shapes can you create?



SILLY SCARECROW

Can you create a scarecrow design out of pattern blocks?



GOING BATTY

YOU NEED:
- base ten blocks
- paper bats with clothespins

BAT FACTS →



SPOOKY SPIDER WEB

YOU NEED:
- pipe cleaners
- spiders

SPIDER FACTS →



AUTUMN LEAVES

Can you create leaf prints out of playdough?

Use toothpicks to add details.

How many different leaf designs can you make?



SILLY SCARECROW

YOU NEED:
- pattern blocks

ALL ABOUT SCARECROWS →



TREAT TOTE

YOU NEED:
- linking cubes
- candy

HOW CHOCOLATE IS MADE →



AUTUMN LEAVES

YOU NEED:
- playdough
- toothpicks
- leaves (real or fake)

WHY LEAVES CHANGE →



PUMPKIN PATCH

YOU NEED:
- wooden planks
- pumpkin

DISSECT A PUMPKIN →



FOOTBALL FUN

YOU NEED:
- building bricks
- paper

MAKE A PAPER FOOTBALL →



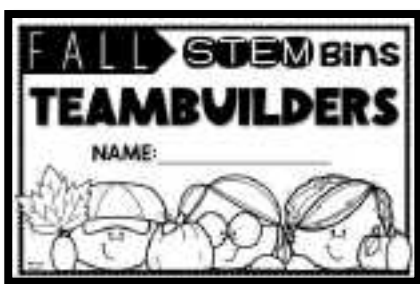
HAUNTED HOUSE

YOU NEED:
- mini cups
- ghost cups

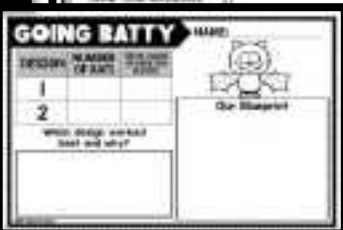
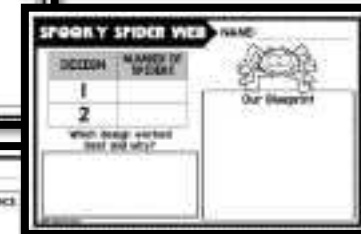
CUP TOWERS →



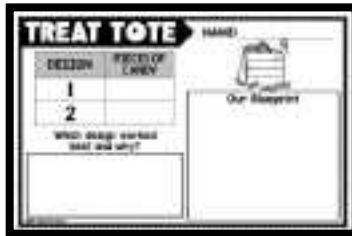
K-5TH GRADE



K-1ST GRADE

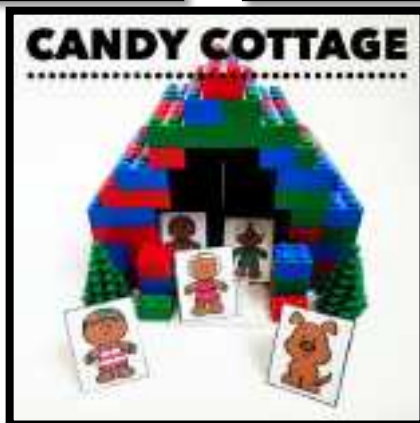


2ND-5TH GRADE



DIFFERENTIATED RESOURCES

8 LOW PREP WINTER CHALLENGES



8

SIMPLE WINTER CHALLENGES

SNOWFLAKE SHAPES

Can you create snowflake designs out of pattern blocks?

Can you make your snowflakes with 6 main branches?

Can you make your snowflakes SYMMETRICAL?



SNOWFLAKE SHAPES

YOU NEED:

- pattern blocks

SNOWFLAKES



CANDY COTTAGE

Can you build a house for the gingerbread family?

How many rooms can you make?

How many members of the gingerbread family fit in your house?



CANDY COTTAGE

YOU NEED:

- building bricks
- paper gingerbread family

LEGO GINGERBREAD HOUSE



SNOW FRIENDS

Can you build snow people and animals out of playdough and toothpicks?

How many different snow friends can you make?



SNOWBALL FIGHT

Can you create a catapult to launch a snowball (linking cube)?

How many mini cups can you knock down when you launch



SNOWBALL FIGHT

YOU NEED:

- wooden planks
- mini cups
- linking cubes

BUILD A CATAPULT



GIVE A GIFT

Can you create a gift box out of index cards, paper, and tape?

Can you make a bow, ribbon, or gift tag for your box?

Can you write a kind note to someone special to put inside your box?



PENGUIN PLAYGROUND

Can you create a habitat for penguins to live and play?

What features of your habitat will help penguins survive?

What features can penguins play on?



PENGUIN PLAYGROUND

YOU NEED:

- linking cubes
- paper penguins



FESTIVE FOREST

Can you create a forest of trees?

Can you make a pyramid-shaped tree with a triangular base?

Can you make a pyramid-shaped tree with a square base?



FESTIVE FOREST

YOU NEED:

- straws
- pipe cleaners

EVERGREEN TREES



COZY CRITTERS

Can you create a den for the animals to keep them warm in cold weather and safe from predators?



COZY CRITTERS

YOU NEED:

- base ten blocks
- paper animals

ANIMALS THAT HIBERNATE



K-1ST GRADE

SNOWFLAKE SHAPES NAME: _____

Draw your snowflakes (1-2)

Does it have 6 branches? Does it have 6 branches?

YES	NO	YES	NO
-----	----	-----	----

GIVE A GIFT NAME: _____

Draw your gift box

Color the sides of your box

Rectangle area: _____

Who is your gift for?

COZY CRITTERS NAME: _____

Draw your critter

Color the animals that fit in your den

WINTER TEAMBUILDER Reflection NAME: _____

Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

SNOWBALL FIGHT NAME: _____

How many cups did you knock down in 5 throws?

Draw your cup tower

PENGVIN PLAYGROUND NAME: _____

Draw and label your penguin habitat

SNOW FRIENDS NAME: _____

Draw your snowflake

CANDY COTTAGE NAME: _____

Draw your candy house

How many candies did you use?

How many candies did you use to make your house?

WINTER STEM Bins TEAMBUILDERS

NAME: _____

1. SNOWFLAKE SHAPES

2. COZY CRITTERS

3. FESTIVE FOREST

4. SNOWBALL FIGHT

5. GIVE A GIFT

6. PENGVIN PLAYGROUND

7. CANDY COTTAGE

8. SNOW FRIENDS

FESTIVE FOREST NAME: _____

Draw your forest

SNOWFLAKE SHAPES NAME: _____

Draw your snowflakes

Does it have 6 branches? Does it have 6 branches?

COZY CRITTERS NAME: _____

Draw your critter

Color the animals that fit in your den

FESTIVE FOREST NAME: _____

Draw your forest

How many trees did you draw?

How many trees did you draw to make your forest?

WINTER TEAMBUILDERS

TEAMBUILDER

1. SNOWFLAKE SHAPES

2. COZY CRITTERS

3. FESTIVE FOREST

4. SNOWBALL FIGHT

5. GIVE A GIFT

6. PENGVIN PLAYGROUND

7. CANDY COTTAGE

8. SNOW FRIENDS

FINISHER

1. SNOWFLAKE SHAPES

2. COZY CRITTERS

3. FESTIVE FOREST

4. SNOWBALL FIGHT

5. GIVE A GIFT

6. PENGVIN PLAYGROUND

7. CANDY COTTAGE

8. SNOW FRIENDS

PENGVIN PLAYGROUND NAME: _____

Draw your habitat design

GIVE A GIFT NAME: _____

Draw your gift box design

CANDY COTTAGE NAME: _____

Draw your house design

SNOW FRIENDS NAME: _____

Draw your snowflake

SNOWBALL FIGHT NAME: _____

How many cups did you knock down in 5 throws?

Draw your cup tower design

2ND-5TH GRADE

WINTER TEAMBUILDER Reflection NAME: _____

Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

DIFFERENTIATED RECORDING SHEETS

100th DAY STEM

Teambuilder Stations



CREATED BY BROOKE BROWN

8 EASY PREP STEM STATIONS



100
MATERIALS
PER STATION

101ST & 102ND DAY OF
SCHOOL ALSO INCLUDED!

**STUDENTS ROTATE WITH
SMALL GROUPS TO
CREATE, BUILD, & PLAY!**



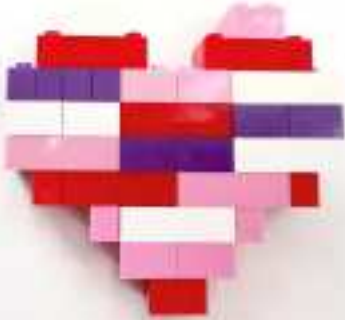
VALENTINE'S DAY STEM Bins

TEAMBUILDERS



6 LOW PREP VALENTINE'S DAY CHALLENGES

HAPPY HEARTS



PERFECT FOR VALENTINE'S DAY PARTIES!



6

VALENTINE'S DAY CHALLENGES

MAKE THE FRIENDSHIP BRACELETS



Can you make friendship bracelets to give to your friends?



SWEET SHOP

YOU NEED:
• wooden planks
ROCK CANDY



SWEET SHOP

Can you build a sweet shop that will hold the most desserts?



KIDS' BAKE OFF

Can you make sweet treats out of playdough?



KIDS' BAKE OFF

YOU NEED:
• playdough
• toothpicks



HAPPY HEARTS

Can you create heart designs out of building bricks?

How many different hearts can you make?



HAPPY HEARTS

YOU NEED:
• building bricks



HEART BE



TREAT TOSS

Can you toss candy into mini cups and try to earn the most points?

Place your cups in different designs and play again!



MINI MAILBOX

Can you create a mini mailbox to hold Valentines?

Can you make some Valentines for your friends and family?



MINI M

YOU NEED:
• index cards
• tape
• linking cubes
• scissors

MAIL SORTING



TREAT TOSS

YOU NEED:
• mini cups
• candy

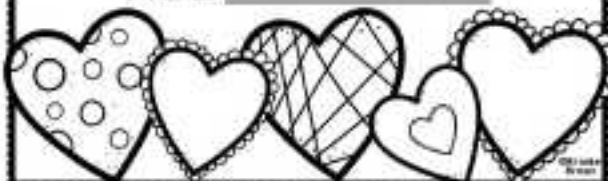
HOW SWEETHEARTS ARE MADE



VALENTINE'S DAY STEM Bins

TEAMBUILDERS

NAME: _____



VALENTINE'S DAY TEAMBUILDERS

TEAMBUILDER

FINISHED!

1. HAPPY HEARTS
2. MINI MAILBOX
3. SWEET SHOP
4. TREAT TOSS
5. MAKE THE FRIENDSHIP BRACELETS
6. KIDS' BAKE OFF



KIDS' BAKE OFF

NAME: _____

Draw your...

TREAT TOSS

NAME: _____

Toss a piece of candy into the cups.
Add up your total.



TOSS	POINTS
1	
2	
3	
4	
5	
TOTAL	

HAPPY HEARTS

NAME: _____

Draw your heart design.



How many bricks did you use?	How many points did you earn?	How many points did you earn?

How many total bricks?

SWEET SHOP

NAME: _____

Draw your sweet shop design.



How many desserts are in your sweet shop?

MINI MAILBOX

NAME: _____

Draw your mailbox design.



FRIENDSHIP BRACELETS

NAME: _____

Draw your bracelets.

1

2

I am giving this bracelet to _____

I am giving this bracelet to _____

VALENTINE'S DAY

TEAMBUILDER Reflection

NAME: _____

Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

VALENTINE'S DAY

TEAMBUILDER Reflection

NAME: _____

Which activity was your FAVORITE?

Which activity was EASY?

Which activity was TRICKY?

Which activity was MOST CHALLENGING?

Which activity was LEAST CHALLENGING?

Which activity was your FAVORITE?

STUDENT RECORDING
BOOKLETS