

MINECRAFT

EXTENSION CHALLENGE

Using higher order thinking skills and open-ended responses
to engage students in learning.

Created by Darcy Gilmore

EXTENSION CHALLENGE

EACH WEEK, YOUR JOB IS TO USE MINECRAFT TO CREATE SOMETHING SPECTACULAR TO MEET EACH CHALLENGE. IF YOU DON'T HAVE MINECRAFT, GET CREATIVE- MAYBE USE LEGO OR EVEN DRAW!

EACH CHALLENGE IS DIFFERENT AND EXPLORES A VARIETY OF TOPICS. THIS MIGHT BE MATHEMATICS, SCIENCE, ENGLISH, OR EVEN ART!

ONCE YOU COMPLETE A CHALLENGE, UPLOAD A PICTURE TO SEESAW.

THE MOST IMPORTANT THING IS TO **TRY YOUR BEST** AND **HAVE FUN LEARNING!**

Miss Gilroy

WEEK 1- MULTIPLICATION CHALLENGE

HOW MANY WAYS CAN YOU SHOW THE PROBLEM: 6×4

- FIRST, TRY SHOWING 'GROUPS'
- CAN YOU SHOW THE PROBLEM ON A SIGN?

WEEK 2- PROVE ME WRONG CHALLENGE

THE NUMBER 36 CAN ONLY BE DIVIDED INTO EQUAL GROUPS IN ONE WAY. PROVE ME WRONG.

WEEK 3-

PERSUASION CHALLENGE

WE HAVE BEEN LEARNING HOW TO WRITE PERSUASIVELY.

CREATE A HOME THAT IS SUSTAINABLE- THAT MEANS THAT IT IS GOOD FOR THE ENVIRONMENT AND EVERYTHING YOU USE IS RENEWABLE.

- THINK ABOUT WAYS THAT HUMANS IMPACT THE ENVIRONMENT.
- THINK ABOUT WHAT IS ESSENTIAL TO HAVE.
- THINK ABOUT WAYS YOU CAN HELP THE ENVIRONMENT.

MAKE A VIDEO EXPLAINING WHY WE ALL SHOULD LIVE IN A HOME LIKE YOU HAVE BUILT. BE PERSUASIVE!

WEEK 4- SQUARE NUMBER CHALLENGE

WHEN YOU MULTIPLY A NUMBER BY ITSELF, IT IS CALLED A SQUARE NUMBER.
FOR EXAMPLE:

- $2 \times 2 = 4$
- $3 \times 3 = 9$
- $4 \times 4 = 16$

4, 9 AND 16 ARE EXAMPLES OF SQUARE NUMBERS.

CREATE A BUILD USING SQUARE NUMBERS. USE SIGNS TO SHOW THE NUMBERS YOU USED.

WEEK 5- COLOUR WHEEL CHALLENGE

ARTISTS USE THE COLOUR WHEEL TO HELP THEM SELECT COLOURS THAT COMPLEMENT EACH OTHER AND TO HELP WITH COLOUR MIXING.

CAN YOU CREATE A COLOUR WHEEL IN MINECRAFT?

MAYBE YOUR BUILDING FEATURES A COLOUR WHEEL?

MAYBE YOU CAN FIND OBJECTS THAT REPRESENT ALL THE COLOURS IN THE COLOUR WHEEL?

IT'S UP TO YOU!

WEEK 6- SELF-PORTRAIT CHALLENGE

USING DIFFERENT SHAPES AND OBJECTS, CREATE A SELF-PORTRAIT. USUALLY A SELF-PORTRAIT FOCUSES ON THE TOP OF YOUR BODY, FROM YOUR SHOULDERS UP.

IT MIGHT BE EASIEST TO COPY A PHOTO OF YOURSELF.

UPLOAD A PICTURE OF YOURSELF BESIDE THE SELF-PORTRAIT.

THINK: IS IT EASIER TO MAKE A BIGGER OR SMALLER PORTRAIT?

HERE IS AN EXAMPLE OF SOMEONE CREATING A PORTRAIT OF ABRAHAM LINCOLN →



WEEK 7- FRACTIONS CHALLENGE

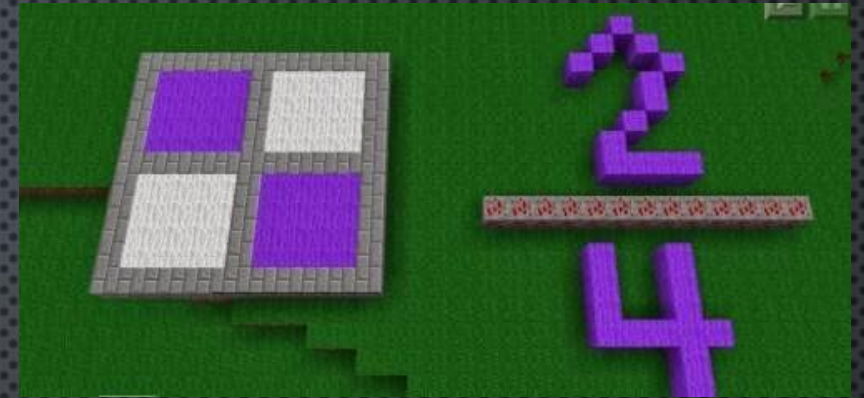
TIME TO GET CREATIVE...

CREATE A BUILD TO SHOW WHAT YOU KNOW ABOUT FRACTIONS.

- MAYBE YOU SHOW HALF USING DIFFERENT OBJECTS
- MAYBE YOU MAKE AN EQUATION WITH BLOCKS
- MAYBE YOU CREATE A FARM AND DESCRIBE WHAT FRACTION OF THE FARM IS MADE UP OF DIFFERENT MATERIALS
- MAYBE YOU DESIGN AN ENTIRE PROPERTY WITH DIFFERENT FRACTIONS

THE OPTIONS ARE LIMITLESS! BE AS CREATIVE AS YOU CAN BE.

MAKE SURE YOU LABEL YOUR FRACTIONS.



WEEK 8- PATTERNS CHALLENGE

WE KNOW THAT PATTERNS REPEAT.

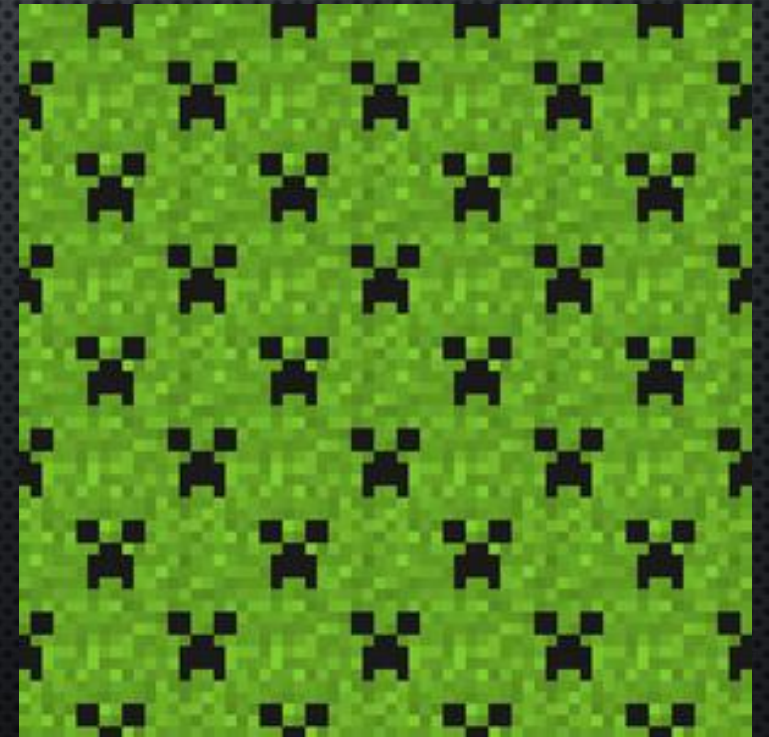
THIS COULD BE THAT THEY REPEAT IN A ROW:



OR THEY REPEAT ACROSS AN AREA →

CREATE A VARIETY OF PATTERNS.

CHALLENGE ONE OF YOUR FAMILY MEMBERS TO TRY
AND CONTINUE THE PATTERN



WEEK 9- PERIMETER CHALLENGE

HOW MANY DIFFERENT PADDOCKS CAN YOU BUILD FOR YOUR ANIMALS WITH A PERIMETER OF 20 BLOCKS?

IS THERE A DIFFERENT SHAPE YOU COULD USE OTHER THAN A RECTANGLE THAT STILL HAS A PERIMETER OF 20 BLOCKS?

WEEK 10- BOOK COVER CHALLENGE

CAN YOU RECREATE A BOOK COVER USING
DIFFERENT OBJECTS IN MINECRAFT?

USE DIFFERENT COLOURS AND SHAPES TO TRY TO
MIMIC A BOOK COVER. UPLOAD YOUR CREATION
NEXT TO A PICTURE OF THE BOOK COVER TO
SHOW YOUR COMPARISON.

HERE IS AN EXAMPLE OF SOMEONE CREATING 'THE GREAT GATSBY' BOOK COVER →

