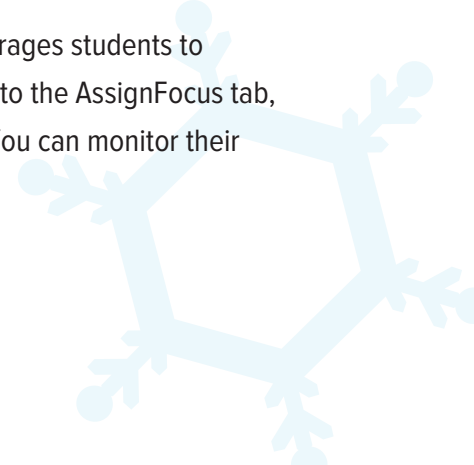




# Winter Math Fun Pack

The Winter Math Fun Pack is a great way to get your students motivated to stay on their math-learning game.

## HERE ARE FOUR EASY WAYS TO PROVIDE ACCESS TO LEARNING FOR YOUR STUDENTS OVER BREAK

- 1** Family first! Include families to encourage math learning over break by printing the [parent invitation](#) and sending it home with students along with this Winter Math Fun Pack. You can find the parent invitation in your [Insight Dashboard](#) under Login Information.
  - 2** Let them engage! Adjust your [Student Engagement Settings](#) so your students can access the seasonal fun in their learning environments. Select the Settings in your [Insight Dashboard](#) and go into Engagement Restrictions to allow access.
  - 3** Set realistic goals! Encourage students to engage with math over the holidays. They can make goals for their usage or lessons completed in DreamBox. They can track their progress on the calendar included in this Winter Math Fun Pack. **Tell your students there is a limited-time seasonal surprise for them to discover in DreamBox.**
  - 4** Review past learning! Create an [assignment](#) in DreamBox that encourages students to review concepts you covered this fall. In your [Insight Dashboard](#), go to the AssignFocus tab, create a long-term assignment, and pick a DreamBox Learning Unit. You can monitor their progress after break to see if they understood the concepts.
- 

# Merry & Meaningful Math Activities

Your students keep up skills over the holidays and have a lot of fun along the way!



1

## Be a Cookie Monster | Measurements & Fractions

Everyone loves cookies! Use a cookbook or back of a mix box to reference amounts, then double or triple the recipe to incorporate fractions for a yummy learning experience.



2

## Hit the Stores | Percentages

Setting a budget for gifts or using a gift card for needed items is good percentage practice. If items are on sale, kids can figure out new prices based on the percentage discount.



3

## Visit Ted | Multiple Topics

The [TED-Ed Math in Real Life](#) series has original, animated lessons that feature words and ideas of educators. There are quizzes, ways to dig deeper, and teaching ideas to help create and customize lessons.



4

## Check the Temps | Calculations & Conversions

Practice reading a thermometer and keep a log of each day's temperatures. Calculate the difference in temperatures between days and make educated predictions about the next day's temperature. Advanced students can practice converting temperatures from Fahrenheit to Celsius.



5

## Walk About | Geometry

Math is all around us – 2D and 3D shapes are everywhere! Take a walk. If kids have a phone, they can snap pictures and share them once school is back in session, or create their own notebook to track shapes they've spotted.



6

## Plan a Party | Calculations

A hypothetical (or real!) holiday party to host means there's a need to calculate food needed based on the number of guests, cost of different materials like decorations and party favors, how much time is needed for preparation, and more.



7

## Not-Fantasy Football | Measurements & Graphing

Keep track of yards gained and lost from running versus passing plays of your favorite football team. Make comparisons between the best players and display it graphically.



8

## Take a Drive | Estimation

Estimate when a mile has been traveled, then verify it via odometer. At the gas station, calculate how much the final bill will be based on the cost per gallon.



9

## What's the Winter Solstice? | Graphing

[Windows to the Universe](#) explains sun movements that can be used to create a graph. Check the weather page online or in the newspaper for sunrise and sunset times over a week or two for double bar graph stats.



10

## Wrap It Up | Surface Area & Nets

Choose a gift box, find the area of an object, and work out the smallest rectangle of paper needed to wrap it so that it's completely covered.



11

## Google-y Math | Multiple Topics

[Real World Math](#) is a collection of free math activities for Google Earth designed for students and educators. Concepts and challenges can be presented in a meaningful way that portray the usefulness of the ideas.



12

## Happy 2017! | Multiple Topics

Create a custom calendar filled with artwork, holidays, family and friend birthdays noted. When school is back in session, use the calendar to discuss days, weeks, months, years and use the calendars to answer math questions.

[illegible]

One of the things in the border is wrong. Can you find it?

$2 \times 0 = 0$

$2(a + b) = 2a + 2b$

$\frac{5}{4} = 1\frac{1}{4}$

$(a + b)(a + b) = a^2 + 2ab + b^2$

$0 \times 2 = 0$

$298 + 189 = 300 + 187$

$a^2 + b^2 = c^2$

$\frac{50}{100} = \frac{5}{10} = \frac{1}{2}$

$2(a - b) = 2a - 2b$

$287 > 278$

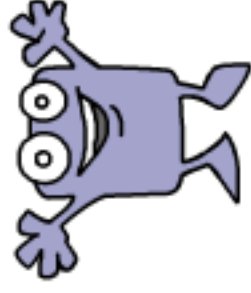
$300 - 199 = 301 - 200$

$717 < 171$

# Drawing a DreamBox Character

Character: Another Güb

Difficulty Level: Easy



1

Start with a curved box that's a little taller than it is wider.



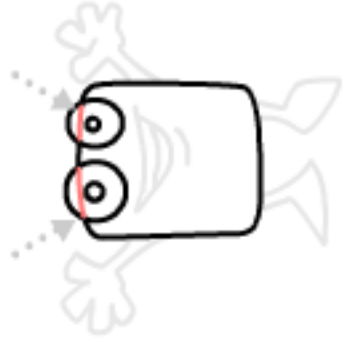
2

Add the eyes. It's ok for the eyes to overlap the box. You'll erase it next.



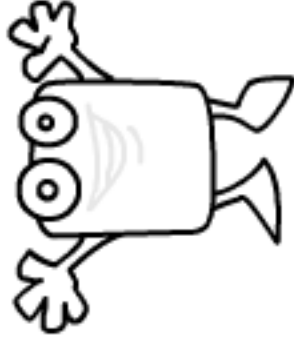
3

Now erase parts of the box marked red so that the eyes are clear. If you accidentally erase other parts, just redraw those lines.



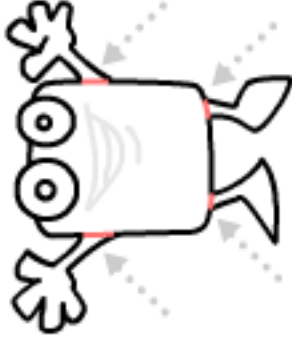
4

Draw in the arms and legs. Take your time--it's the hardest part of the drawing.



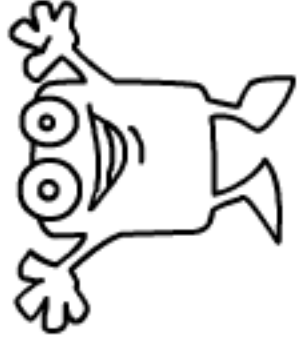
5

Erase the part of the box where the arms and legs meet it (marked in red).



6

Finally, add the mouth. Now you can color your Güb! (See picture at the top.)



**ALL DONE!**

# How to Draw Hemi

①

Draw a circle for the head.



⑤

Small circles below the body make feet.



②

Add a body below the head that looks like this:



⑥

Add a face!



③

Add lines to define the belly.



⑦

Finish everything by drawing 2 arms.



④

Draw large ears on the head.



⑧

Add color.

