

## PLANET PIKKE TEACHER PAGE

This group puzzle requires students to work together. In groups of 3 or 4, students will use context clues to decipher nonsense words in the clues. The "Pikkel math" is only included to help students decipher the number words.

### MATERIALS NEEDED (per group of 3 or 4 students):

- 1 Group Recording Page - p. 2
- 2 handouts of Pikkel aliens - pp. 3 and 4 (for black and white copies, use pp. 5-6)
- 1 set of Clue Cards (A,B,C,D) - p. 8 (each group member gets one card)
- Extra Clue Cards (pp. 9 and 10), cut apart, ready to hand out as needed
- Scratch paper and pencils available to all students
- The teacher will also need a highlighter.*

### INTRODUCING THE CHALLENGE

Share [this slide](#) and have it on display throughout the activity. Then, place the four clue cards in the middle of the group, face down. When given the signal to begin, each student should take one card, keeping it hidden from the group. *Note: In groups of three, one person will take two clue cards.*

### MONITORING and ASSISTING

Students may be very frustrated at first. Resist the urge to give hints until they've had time to share the information on their clue cards several times. If students are truly stumped, provide hints by highlighting sentences as shown below. If these do not help them, provide EXTRA CLUES (page 9 -10)

GROUP RECORDING PAGE

Light-years from Earth, Planet Pikkel is home to many beings. Just as we are all Earthlings, the beings on Planet Pikkel are all Pikkels. But, as on Earth, the beings on Planet Pikkel are diverse. There are Yetyls, Koffles, and Zackels. But **there are no identical twins. No zob Pikkels are alike!** Use the clue cards and the pictures of the 12 Pikkel beings to answer the questions.

zob = two

this could only apply to Creature K (viks = eyes, nib = five)

the only feature all Pikkels have is eyes.

CLUE CARD B

All Pikkels have viks, but some, known as Yetyls, have just zib vik, while others have more than tib viks.

In Pikkel math, a zib plus a tib equals a tib. A tib plus a tib equals one yik.

singular (no s)  
zib = one

CLUE CARD D

A rare Zackel has nib viks atop long appendages, allowing it to riz in many directions at once.

In Pikkel math, the difference between a nab and a zob is tob.

# PLANET PIKKEK

## GROUP RECORDING PAGE

Light-years from Earth, Planet Pikkell is home to many beings. Just as we are all Earthlings, the beings on Planet Pikkell are all Pikkells. But, as on Earth, the beings on Planet Pikkell are diverse. There are Yetyls, Koffles, and Zackels. But there are no identical twins. No zob Pikkells are alike! Use the clue cards and the pictures of the 12 Pikkell beings to answer the questions below.

### IMPORTANT RULE

DO NOT SHOW ANYONE ELSE YOUR CLUE CARD. You may read it aloud to the group, and you may write on it. But you may not set it down where others can see it.

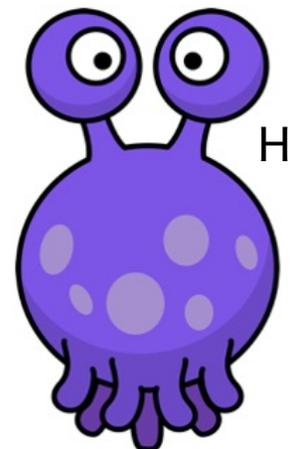
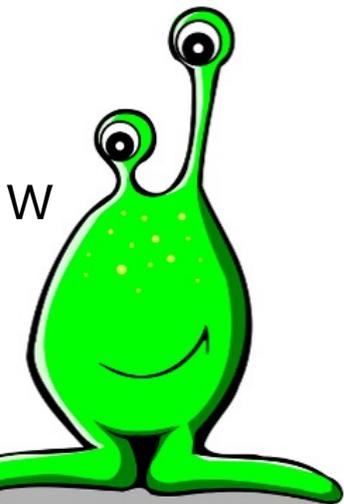
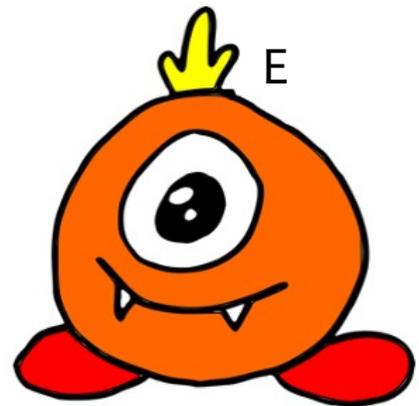
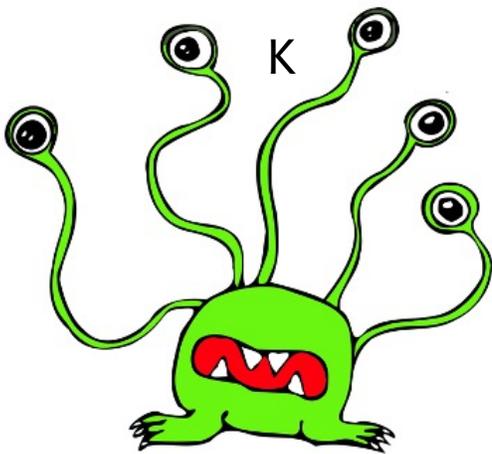
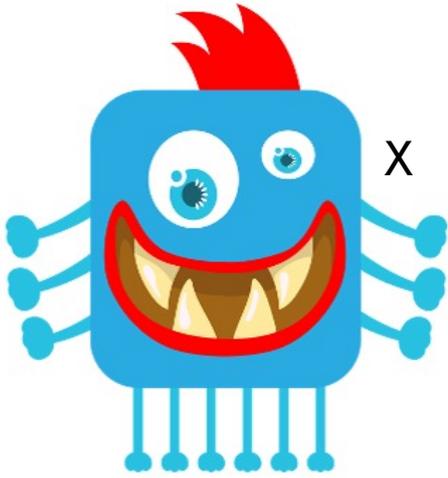
1. Complete the charts by writing in a word or number for each Pikkell word.

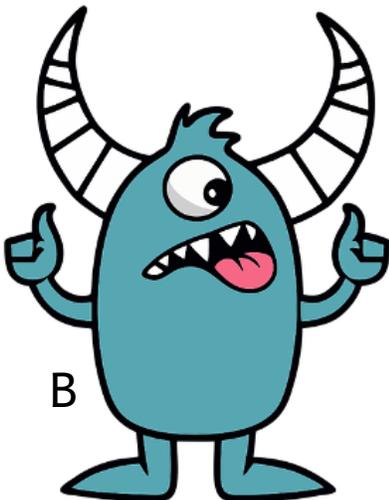
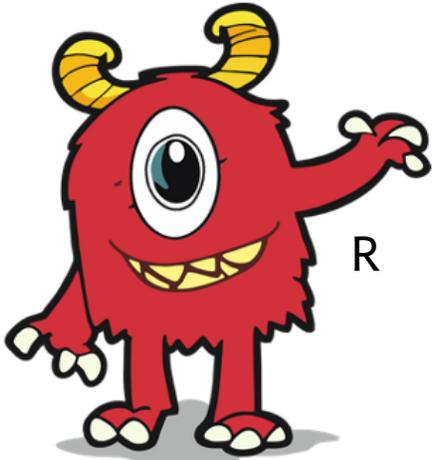
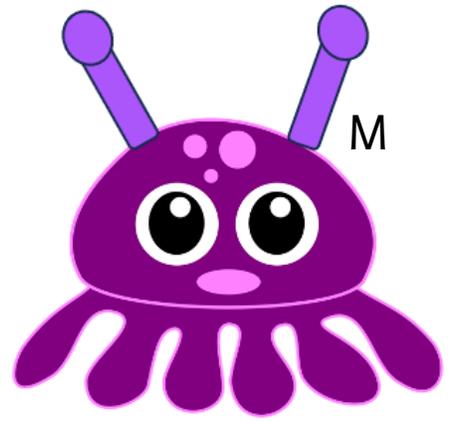
viks	
yiks	
wigs	
tupple	
biddle	
riz	

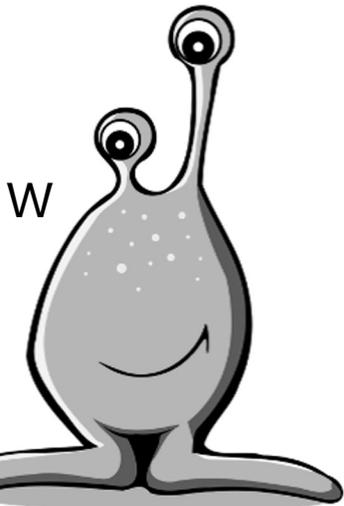
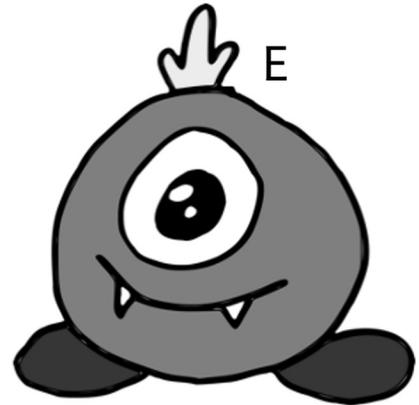
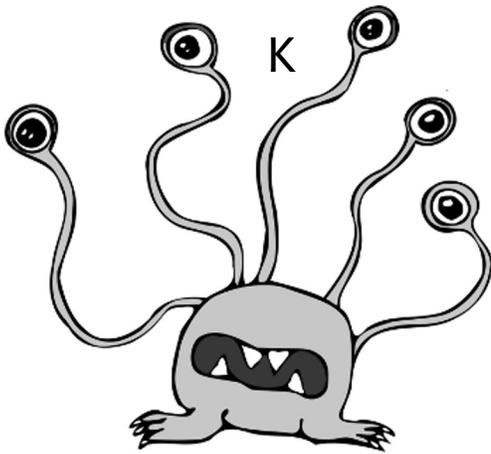
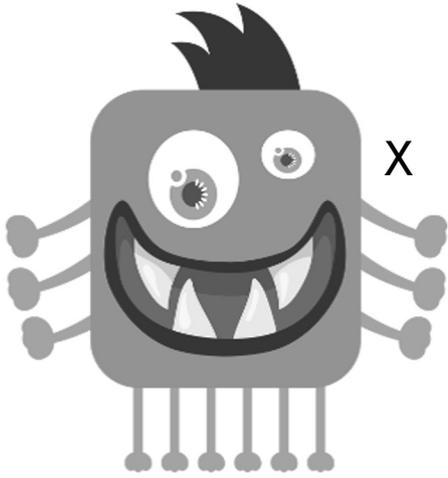
zib	
zob	
tib	
tob	
nib	
nab	

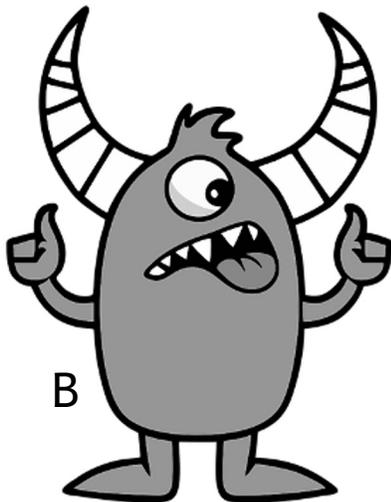
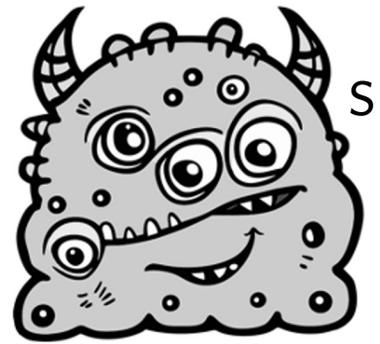
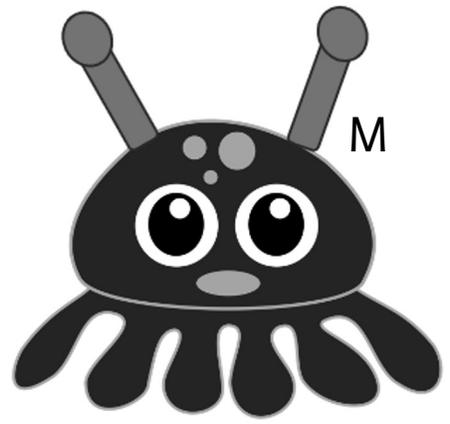
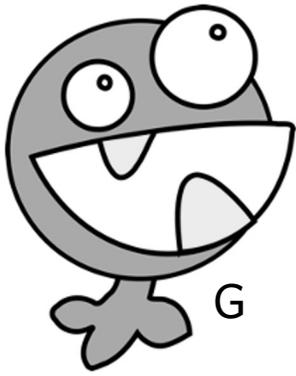
2. In the chart below, write the letter of each alien under its type..

YETYLS	KOFFLES	ZACKELS









CLUE CARD A

Zackels are Pikkels that have at least zob viks and at least zib yik, Koffles have more than tib viks and no yiks.

In Pikkell math, if you have tib bananas and zob oranges, you have a total of nib pieces of fruit.

CLUE CARD B

All Pikkels have viks, but some, known as Yetyls, have just zib vik, while others have more than tib viks.

In Pikkell math, a zib plus a tib equals a tob. Also, nab inches equals half a yik.

CLUE CARD C

One type of Zackel has nab yiks and nab wigs. They are the fastest tupplers and they love to biddle "Hide and Seek."

In Pikkell math, the sum of nib and zib is nab.

CLUE CARD D

A rare Zackel has nib viks atop long appendages, allowing it to riz in many directions at once.

In Pikkell math, the difference between a nab and a zob is tob.

EXTRA CLUE #1

If students need extra clues, hand this clue out first.

<p>EXTRA CLUE #1</p> <p>Pikkels have unique words for both numbers and body parts. There is one body part that every type of Pikkel has.</p>	<p>EXTRA CLUE #1</p> <p>Pikkels have unique words for numbers, and body parts. There is one body part that every type of Pikkel has.</p>
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CUT APART

EXTRA CLUE #2

Pass out this clue last.

<p>EXTRA CLUE #2</p> <p>When Pikkels biddle "Hide and Seek," one covers its viks while the others tupple, as fast as their yiks will carry them, and hide.</p>	<p>EXTRA CLUE #2</p> <p>When Pikkels biddle "Hide and Seek," one covers its viks while the others tupple, as fast as their yiks will carry them, and hide.</p>
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CUT APART