Reading between the lines: Improving Comprehension for Students

Kevin Larson Microsoft Advanced Reading Technologies July, 2016

Reading = Decoding × Comprehension

My father asked me to help the two men carry the box inside My father asked me to help the two men carry the box inside My father asked me to help the two men carry the box inside

> Three of my friends had never been to a circus before today

My grandfather has a large garden with fruit and vegetables

He told a long story about ducks before his son went to bed

My mother loves to hear the young girls sing in the morning

The young boy held his hand high to ask questions in school

My brother wanted a glass of milk with his cake after lunch

I do not understand why we must leave so early for the play

> It is more than four hundred miles from my home to the city

> > Our father wants us to wash the clothes before he gets back

> > > They are all then to not you have been and not have the season

My father asked me to help the two men carry the box inside

> Three of my friends had never been to a circus before today

My grandfather has a large garden with fruit and vegetables

He told a long story about ducks before his son went to bed

My mother loves to hear the young girls sing in the morning

The young boy held his hand high to ask questions in school

My brother wanted a glass of milk with his cake after lunch

I do not understand why we must leave so early for the play

> It is more than four hundred miles from my home to the city

> > fur father wants us o wash the clothes efore he gets hack

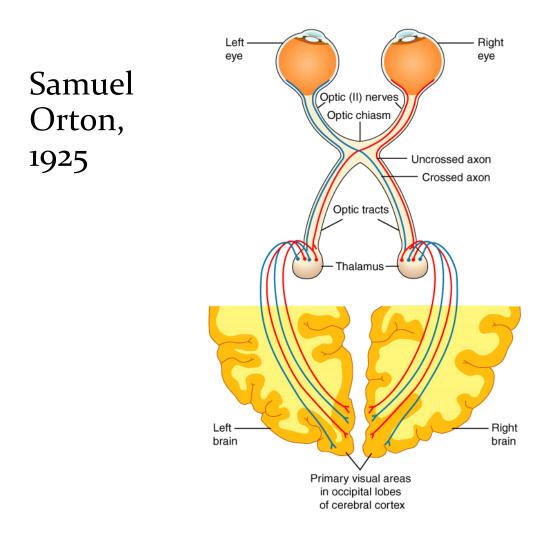
Pay and then according pay of her fit and

a a c c

f f j j

aaCC67%66%44%50%

f f j j 43% 51% 22% 26%



Source: Wikimedia Commons: Wiley Human Visual System











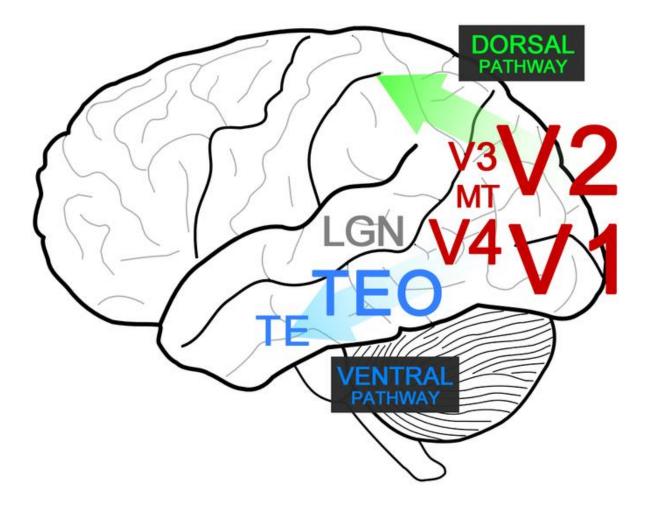


Name the letters b, d, p, qWrite the letters b, d, p, q

Vellutino, 1978

3 skills for decoding

1.Fast letter identification
 2.Phonemic awareness
 3.Letter to sound correspondence



Source:Wikimedia Commons: Karlis Kanders



r







Source: Pelli & Tillman, 2008, The uncrowded window of object recognition

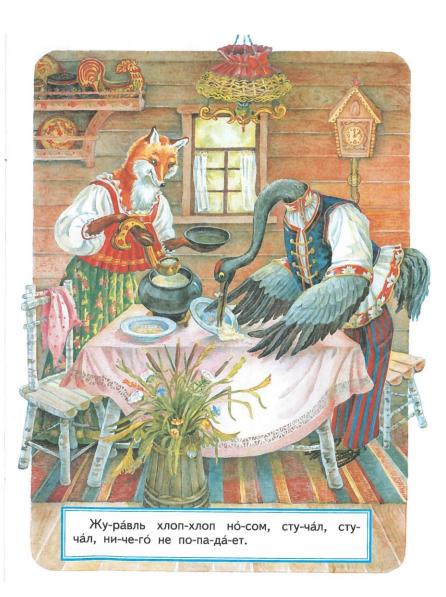
A mother and her son are leaving home in the morning. She is taking him to visit his father's workplace. The father is a laboratory technician at Victoria Memorial Hospital. While crossing the road, the boy is caught in a terrible accident, which critically injures him.

Llanfairpwllgwyngyllgogerychwyrndrob – wllllantysiliogogogoch

Llanfairpwllgwyngyllgogerychwyrndrob – wllllantysiliogogogoch

Llan · fair · pwll · gwyn · gyll · go · ger · ych wyrn · drob · wll · llan · ty · silio · go · go · goch

И-дёт жу-ра́вль на зва́-ный пир, а ли-са́ на-ва-ри́-ла ма́н-ной ка́-ши и раз-ма́-за-ла е-ё по та-ре́л-ке. По-да-ла́ и по́т-чу-ет: — По-ку́-шай, го-лу́б-чик ку-ма-нёк! Са-ма́ стря́-па-ла.





Reading = Decoding × Comprehension

The girl

The girl knew

The girl knew the answer

The girl knew the answer was wrong

The horse raced past the barn fell

The girl knew the answer by heart The girl knew the answer was wrong

WEENERIF & Tom Ho Confilium Horhabepet quoperfidenteraparioritmperieulonepo: ranee; clerigiramdia cincateriacoure 1540m quandre enumpercontrum cur baruinencoremptueor tibuero udvillum crucifeconationif arma repeenvermediarcentriegilammat l'éque tumientirepoparte qualinaleerier experimenter; underntellezar qui qui have lezente timprarumquiden illoman tinop en culoiredure probatum

The Verona Sulpicius Severus, 517 AD

The only students I have ever met who ever believed their ears were blind.

The girl knew the answer by heart The girl knew (the answer was wrong)

Problem Solving Tips

<

ExampleTeacherWorkbooks > 7th Grade Math Workbook > Problem Solving Tips

There are mainy stratieigies (one can use in solving word probilems).

<Be·fore you de·cide <which
strat·e·gy to use>>, you should be·gin
by read·ing the prob·lem care·ful·ly.
De·ter·mine <<what you know> and
<what you need to find out>>. Of·ten
it helps to un·der·line num·bers and
kev words in the prob·lem. <Once</pre>

= = \



Learning Tools for OneNote http://www.onenote.com/learningtools

Kevin Larson kevlar@microsoft.com