

# RIT Reference Charts 

For Common Core and Science
Measures of Academic Progress ${ }^{\circledR}$ (MAP ${ }^{\circledR}$ ) and MAP for Primary Grades (MPG)

Included in this book:

- Reading
- Language Usage
- Mathematics 2 - 5
- Mathematics 6+
- MPG for Reading
- MPG for Mathematics
- Science


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## Reference Chart for Reading



MAP tests produce scores that make it possible to monitor student growth from year to year along developmental curriculum scales or continua. The chart inside shows examples of the kinds of work students can do at various points along the MAP RIT scale, assuming they have been exposed to content. This type of information is helpful in supporting appropriate instruction.

Please note that each subject area has a unique alignment to the RIT scale. As a result, scores between subjects are not equivalent.

## How to use the charts:

1. Find the column containing the student's score for a particular subject. For example, if the student's score in "Word Meaning and Vocabulary Knowledge" is 188, refer to the column labeled 181-190.
2. Read the column(s) from left to right to locate a sample test question for a given reporting area, such as "Word Meaning and Vocabulary Knowledge." A student's score suggests that, currently, he or she is likely to get about half of the questions of this difficulty correct.
3. Now look at the questions in the column(s) to the left, and higher on the page. The student is likely to get most of these correct, assuming he or she has been instructed in these skills and concepts.
4. The questions further down the page will probably require new learning on the student's part.

## Please note:

Test items in this booklet are sample items, and many are not calibrated or field-tested. For purposes of this document, RIT scale alignment is an approximation.

Some passages have been truncated due to space considerations.

## READING

## Word Meaning and Vocabulary Knowledge

Students can decode words and recognize and understand word relationships and structures．
They can use context cues to decipher word meaning．

## below 161 <br> 161－170

## 171－180

Read the words．
ball
doll
puzzle
top
To which group do these words belong？

1．animals
2．colors
3．places
$\sqrt{ }$ 4．toys

Use the sentences and the glossary to answer the question．

Dinah and her sister went to the
market．They saw many kinds of produce．Dinah wanted peas．Her sister wanted strawberries．

Glossary
market a place to sell food
produce fruits and vegetables

## What is another kind of produce？

1．cookies
3．money
，2．apples
4．trees

## Read the sentences．

Jackie couldn＇t believe how much fun she had on the field trip．She kept replaying the day＇s events in her mind on the bus ride back to school．

In the word＂replaying，＂what does the prefix re－mean？

1．not
2．two
$\checkmark$ 3．again
4．after

## 181－190

## Read the paragraph and dictionary entries．

Mrs．Franz had just given her students a piece of clay the size of her hand．She told them to create something．（passage continues）
scuba（skoo－buh）$n$ ．equipment used to breathe under water
scullery（skuhl－er－ee）$n$ ．a small room near the kitchen
sculpture（skuhlp－chur）$n$ ．an object created by carving or molding
scum（skuhm）$n$ ．a covering on the surface of a liquid

## Based on the information in the paragraph，what is the

 meaning of the word sculpture？1．slimy film
2．large pantry

マ 3．piece of art
4．swimming gear

## 211－220

## Read the sentence．

Although the storm outside was ferocious， Nate left the comfort of the cabin and trudged toward home．

Which word best matches the connotative
meaning of＂ferocious＂as it is used in the sentence？

1．barbaric
2．inhuman
$\checkmark 3$ ．intense
4．untamed

## Read the sentences．

Lightning struck the $\qquad$ of the lilac tree．
Please put the $\qquad$ of old costumes in the attic．

## Which word will fit in both spaces？

『 1．trunk
2．branch
3．limb
4．root

## Which set of words all have the same root word？

1．extra，relax，index
2．contain，restrain，plain
3．here，everywhere，there
$\checkmark$ 4．knowledge，unknown，knowing

## 221－230

## Read the sentence and dictionary entry．

The lives saved when the volcano exploded vindicated the expensive early warning system．

## the meaning of＂ambidextrous＂

## vindicate（vin－di－keyt）u．

1．to clear from an accusation
2．to justify by evidence or argument
3．to defend against opposition
4．to claim for oneself or another

## Which definition of vindicate is used in the sentence above？

1．definition 1
3．definition 3
マ2．definition 2
4．definition 4

## above $\mathbf{2 3 0}$

## 201－210

## READING

## Literature: Understand and Integrate Key Ideas and Details

Students can read and comprehend literature, make inferences and predictions, and draw conclusions. They can determine key ideas, analyze the development of themes and ideas, and summarize.

## below 161

## Read the story.

Mother was ready. She had streamers and balloons. She baked a cake. She invited Sandy's friends. She asked them not to tell Sandy. Sandy will come home from school. Her friends will shout when she turns on the lights!

## What is Sandy's mother planning?

1. Sandy's first day at school
2. a picnic in the backyard
, 3. Sandy's surprise party
3. a trip to the bakery

## 161-170

## Read the passage.

I can't wait for winter vacation to start! Every day feels like a holiday! I love to have snowball fights with my friends and make snowmen in the yard.
(passage continues)
Which word best describes how the author feels about winter vacation?

## 1. calm

$\checkmark 2$. excited
3. nervous
4. tired

## 181-190

## Read the passage.

The wind whipped the tops of the trees so they looked like they were dancing. Clouds raced across the sky. Leaves and bits of paper swirled around. (passage continues)

## Which sentence best tells what the story is about?

1. They are having fun in the snow.
2. They are cleaning up after a big storm.
3. There is a double rainbow in the sky
$\checkmark 4$. A big rainstorm is about to start.

## 211-220

## Read the passage.

He lived on the bank of a mighty river, broad and deep, which was always silently rolling on to a vast undiscovered ocean. It had rolled on, ever since the world began. It had changed its course sometimes, and turned into new channels, leaving its old ways dry and barren. (passage continues)
(from "Nobody's Story" by Charles Dickens)

## What is the main point in this passage?

1. The river supported life on its banks.
2. It is hard to swim against the tide.
$\checkmark$ 3. The flow of the river to the ocean is unchanging.
3. Earth will continue to circle around the sun.

## 171-180

## Read the paragraph.

Gordon loves to visit his aunt and uncle in Vermont. He goes up every summer to visit them. They live on a houseboat on the lake. (passage continues)

## What does Gordon like to do best?

1. swim in the lake
fish for perch and trout
2. read books on the boat deck
$\checkmark$ 4. steer the boat around the lake

## Read the passage.

Molly stared out the bus window with blank eyes. Next to her, a woman pulled herself up. She got off at the next stop. Molly looked over and saw that she had left something on the seat. (passage continues)

What was Molly's first reaction when she picked up the wallet?
$\checkmark$ 1. to turn it in to the bus driver
2. to look at the pictures
3. to call after the woman
4. to take the money

## 191-200

## 201-210

## Read the story.

The lights went out, and people at the costume ball stopped dancing. They spoke in whispers. Then a guest dressed as a lion tamer cried aloud, "Watch out!" Polly screamed. (passage continues)

## Who is most likely the thief in this story?

1. the lion tamer
2. Polly
3. Detective Cutler
$\checkmark$ 4. the pirate

## 221-230

## Read the passage.

Bernadou clung to his home with a dogged devotion. He would not go from it to fight unless compelled, but for it he would have fought like a lion. (passage continues)
(from "A Leaf in the Storm" by Louise De La Ramee)

## Based on the passage, which statement about Bernadou is

 most likely true?1. Bernadou had traveled to the capital of his country many times.
2. Bernadou was a drifter, never spending much time in any one place.

『 3. Bernadou would fight with loyalty and fierceness for any good cause.
4. Bernadou felt a strong connection to his hometown, but not his country.

## above $\mathbf{2 3 0}$

## Read the passage.

Elizabeth Bennet had been obliged, by the scarcity of gentlemen, to sit down for two dances; and during part of that time, Mr. Darcy had been standing near. (passage continues)
(from Pride and Prejudice by Jane Austen)
How is Elizabeth Bennet influenced by the dialogue between Mr. Darcy and Mr. Bingley?

1. Because Elizabeth overhears Mr. Darcy's insulting comments, she insists on sitting alone rather than dance with him.
2. Elizabeth discovers that Mr. Darcy's refusal to dance is due to his shy nature and forgives his behavior.
$\checkmark$ 3. Despite believing that Mr. Darcy is impolite and self-important, Elizabeth maintains an updeat attitude
3. Elizabeth develops a new, playful sense of humor around Mr. Darcy to draw him out of his foul mood

## READING

## Literature: Understand and Interpret Craft and Structure

Students can analyze the structure of literary texts and evaluate the author's craft and purpose. They can interpret figurative language and analyze literary devices.

## below 161

## Read the story.

Maria ate a big bowl of cereal. After
breakfast, Maria put her book in her
backpack. (passage continues)

## What did Maria do first?

$\checkmark$ 1. eat her breakfast
2. put her book in her
backpack
3. put on her coat
4. walk to the bus stop

## 181-190

## Read the sentences.

Scott opened his eyes and looked at the clock. He pulled the blankets over his head to keep the sun out. He yawned and closed his eyes. He just wanted to go back to sleep.

## What does the author want you to think about Scott?

1. He is lazy.
$\checkmark 2$. He is tired.
2. He is hungry.
3. He is scared.

## 161-170

## Read the poem.

## The Movie

The movie theater
is cool and dark.
I can't wait
for the movie to start. (poem continues)

## Which word tells how the theater sounds?

1. cool
2. dark
3. soft
$\checkmark$ 4. loud

## 191-200

## Read the passage.

Laura's teacher asked to see her science project. "But Mrs. Thompson, I forgot it was due today!" Laura said. Then she asked if she could call her mom. "Mom, can you bring my science project to school? It's due today!" She listened to her mother for a moment. (passage continues)

## How do readers learn about Laura?

1. from what other characters say
$\checkmark 2$. from what she says to others
2. from what she looks like
3. from descriptions of her feelings

## 171-180

## Read the passage.

Dave and Mike had a great time sledding. They pulled their sleds up the big hill and went down face-first. (passage continues)

What did Mike and Dave do right after playing outside?

1. They pulled their sleds up the big hill.
2. They raced down the hill.
$\checkmark$ 3. They had grilled cheese and soup.
3. They fell asleep on the couch.

## 201-210

## Read the passage.

The clouds lifted, and the pilot sighted the tower of the Jefferson City airport. He had already radioed ahead that he was arriving. (passage continues)

## What is the best title for this passage?

1. Jefferson City Airport
2. One Cloudy Night
$\checkmark$ 3. A Safe Landing
3. A Pilot's Life

## 211-220

## Read the passage.

Many years ago, a young man named Takoda decided to go on foot to Dark Mountain, a three-day journey from his village. Two days into his journey, he paused for nourishment in a narrow valley. (passage continues)

How does the setting contribute to Takoda's main problem in the story?

1. He is unable to see clearly through dust from the valley floor.
2. He is unable to find shelter on the valley floor from threatening weather.
3. The valley does not provide him with the nourishment he needs for his journey.
$\checkmark 4$. The valley does not provide him with an easy way to avoid the buffalo stampede.

## 221-230

## above 230

## Read the poem.

It sifts from leaden sieves,
It powders all the wood,
It fills with alabaster wool
The wrinkles of the road. (poem continues)
("The Snow" by Emily Dickinson)

## How does the use of alliteration in line 13 build meaning in

 the poem?1. It highlights the eeriness of the snow's frosty appearance.
2. It emphasizes the images of destruction caused by the snow.
$\checkmark$ 3. It accentuates the completeness of the snow's coverage, layer by layer.
3. It contrasts the quietness of the fallen snow with the sounds of harvest.

## Read the poem.

Hope is the thing with feathers
That perches in the soul,
And sings the tune without the words,
And never stops at all, (poem continues)
("Hope" by Emily Dickinson)
Which statement best expresses the meaning of the extended metaphor that compares hope to a bird throughout the poem?
$\checkmark 1$. Hope is a constant presence and gives people comfort.
2. Hope flies away like a bird during storms and difficult times.
3. Hope is demanding, like a bird that constantly needs to be cared for.
4. Hope tries to sing songs that are uplifting, but forgets the words to them.

## Informational Texts: Understand and Integrate Key Ideas and Details

Students can read and comprehend literary texts, making inferences and predictions, drawing conclusions, and citing textual support. They can determine central ideas, analyze the development of arguments, and summarize.

## below 161

## Read the passage.

Many kinds of dogs live in the world Some have been around for a long time. (passage continues)

## What do Mudis like?

1. other dogs
$\checkmark 2$. having work to do
2. living in the city
3. sleeping all day

## 161-170

## Read the directions.

Making mud pies is fun. Find some nice sticky mud. Shape it into little pies. Set the pies in the warm sun to dry.

What type of weather is needed to make mud pies?
$\checkmark$ 1. a sunny day
2. a rainy day
3. a snowy day
4. a cloudy day

## 171-180

## Read the paragraph.

A hen lays about one egg a day. A chick takes three weeks to be born from an egg. (passage continues)

When do chicks start peeping?

1. after one week
2. after two weeks
$\checkmark$ 3. after three weeks
3. after four weeks

## 181-190

## Read the passages.

## Passage 1

Cotton is a type of plant. The cotton plant grows from seeds. Then the plants grow flowers. After the flowers fall off, green pods, or bolls, are left. The bolls dry out in the sun. They burst open. White fluffy cotton pops out.

## Passage 2

Cotton is a soft cloth that comes from a plant. White bolls of cotton are washed and stretched into long strings. The strings are twisted together to make a thread. (passage continues)

## What is the main idea of both paragraphs?

1. plants
2. clothes
$\checkmark 3$. cotton
3. flowers

## 191-200

## Read the paragraph.

Weasels are hunters. They prey on mice, rats, insects, and birds. They will attack larger animals too, such as rabbits and chickens. (passage continues)

What does the weasel do when it gets more food than it needs?

1. It eats until it is sick.
2. It shares the food with others.
, 3. It stores the food for later.
3. It lets the food go to waste.

## 201-210

## Read the paragraph.

Platinum is a silver-white metal that is even more valuable than gold. It will not corrode or tarnish as many metals do when exposed to air. It can be used as a catalyst* in processes that change harmful pollutants into nonpollutants. (passage continues)
*Catalyst: a substance that can speed up or bring about a chemical reaction without being affected itself

## According to the passage, why is platinum valued

 by jewelers?1. It can be used as a catalyst.

マ 2. It is good for gem settings.
3. It is rarer than gold.
4. It is produced in many countries.

## 211-220

## Read the passage.

## More Than a Writer

Many people today use bifocals, eyeglasses that aid people's vision for objects both near and far away. Some people use cast-iron wood-burning stoves to heat their homes. (passage continues)

Which aspect of the passage best supports the idea that Franklin was a creative visionary?

1. the danger associated with Franklin's famous kite-flying experiment
$\checkmark 2$. the example of the wide range of inventions that Franklin developed
2. the mention of Franklin's role in writing the Declaration of Independence
3. the similarities between today's bifocals and the bifocals that Franklin invented

## 221-230

## Read the passage.

We observe today not a victory of party but a celebration of freedom-symbolizing an end as well as a beginning-signifying renewal as well as change. For I have sworn before you and Almighty God the same solemn oath our forbears prescribed nearly a century and three-quarters ago. (passage continues) ("Inaugural Address" by John F. Kennedy)

## Which statement best describes the main idea of

 this passage?1. The past generations have secured freedom for the future.
$\checkmark 2$. The responsibilities of freedom rest with the individual.
2. Global alliances are the key to freedom for all people.
3. Well-equipped armies will fight to defend freedom.

## above 230

## Read the passage.

The efficiency of a book is like that of a man, in one important respect: its attitude toward its subject is the first source of its power. A book may be full of good ideas well expressed, but if its writer views his subject from the wrong angle even his excellent advice may prove to be ineffective. (passage continues)
(from The Art of Public Speaking by J. Berg Esenwein)

## Which conclusion about becoming an effective

 speaker can be drawn from the passage?1. Effective speaking is the result of study followed by earnest practice.
2. Effective speaking requires training in and adherence to a specific set of rules.
, 3. Effective speaking requires self-discipline and personal conviction about the topic.
3. Effective speaking is the result of practicing the speeches and styles of noted speakers.

## Informational Texts: Understand and Interpret Craft and Structure

Students can analyze the structure of texts and evaluate a text for bias and for the quality of claims and evidence. Students can evaluate the author's craft, determining author's point of view and purpose.

## below 161

Read the chart.

| Favorite Sports |  |  |  |
| :---: | :---: | :---: | :---: |
| Baseball | Basketball | Soccer | Swimming |
| Neha | Samuel | Javier <br> Max <br> Jessica |  |
| Addison <br> Srandon <br> Codey | Julia |  |  |

Which sport do the most
children like?

1. baseball
2. basketball
$\checkmark$ 3. soccer
3. swimming

## 161-170

Read the chart.


What types of music have the most in common?

1. country and jazz
$\checkmark$ 2. country and rock
2. jazz and pop
3. pop and rock

## 171-180

## Read the passage.

The best place to go on vacation is Florida. There are beautiful beaches, luxury hotels, good restaurants, and interesting shops. (passage continues)

## What is the author's opinion of Florida?

1. The weather is too hot.
2. Florida has no variety
3. Only boaters will enjoy Florida
$\checkmark 4$. Florida is a great place to visit.

## 181-190

## Read the passage.

(1)One of the most famous bad guys in history was Robin Hood. (2)People think he lived in England, and hid in the forest with his friends. (passage continues)

## in which sentence does the writer state how he feels

 about Robin Hood?1. Sentence 2
2. Sentence 3
3. Sentence 4
$\sqrt{ }$ 4. Sentence 5

## 191-200

## Read the passage.

There are many differences between the ancient Olympics and the Olympics of today. In ancient times, the games were held only during the summer, but today there are summer and winter Olympic Games. (passage continues)

## 201-210

## Which organization structure is used in

 this passage?1. sequence of events
order of importance
cause and effect
$\checkmark$ 4. compare and contrast

## Read the paragraphs.

## Review 1

Happy Birthday, Maudie is a delightful movie. The characters are believable, and the plot is a tender love story. (passage continues)

## Review 2

Don't bother to see Happy Birthday, Maudie. It's a sappy movie about a dumb girl who lets everyone push her around. (passage continues)

Based on the descriptions in the two reviews, on which topic are the two reviewers most likely to agree?

1. the main character's personality
2. the quality of the plot
$\sqrt{ }$ 3. the details of the setting
3. the overall quality of the movie

## 211-220

## Read the passage.

A Unique Creature: The Thorny Devil
The thorny devil is a very interesting and unusual creature. From its name, one might guess that it is large and scary. (passage continues)

Which explanation is the most likely reason the author includes a chapter heading in this passage?

1. to present information about key vocabulary terms
2. to supply reasons why this is an interesting subject
3. to explain background information about the subject
$\checkmark 4$. to provide an idea of what the selection will be about

## 221-230

## Read the report excerpt.

Changes in climate have also been manifested in altered precipitation patterns. Over the last century, the amount of precipitation has increased significantly across eastern parts of North America. (passage continues)
(from "Adaptation Options for Climate-Sensitive Ecosystems and Resources" by the U.S. Environmental Protection Agency)

## Which feature of this text most assures the validity of the

 information?$\checkmark 1$. the use of citations
2. the vocabulary
3. the use of percents
4. the author's tone

## above $\mathbf{2 3 0}$

Read the passage written by a company that organizes scientific research into a database.

Our Mission: Our database of more than 3,000 articles of documented investigations is an easy-to-use tool for scientific research. Users may look for a general topic or narrow their search through the use of three topic code parameters. (passage continues)

| Topic Code Parameters | Description |
| :--- | :--- |
| Social Context | Who conducted the research? Where was it conducted? |
| Method | How was the research conducted? What procedures were used? |
| Findings | What was observed? What results were achieved? |

## How does the chart complement the text?

## 1. It summarizes the text

マ 2. It provides detail not in the text
3. It serves to contrast information in the text.
4. It provides transition between the two parts of the text.


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## below 161

## Study the graphic organizer.



Which word would best complete the graphic organizer?

1. bitter
$\checkmark$ 2. sweet
2. Ioud
3. salty

## 161-170

## Which group of words would be best

 to use to tell about the Moon?1. soft, small, blue
2. close, green, cold
$\checkmark$ 3. white, round, full
3. wet, black, square

## 191-200

Celine is writing a story about a trip to the train station. Her teacher said to use words that describe the sounds at the train station.

## Which sentence should Celine add to her story?

$\checkmark$ 1. An engine thundered down the track and clattered to a stop.
2. Two children waited on a bench and played with their toys.
3. A man rushed through the station carrying a big suitcase.
4. The conductor lifted a suitcase up the steps of the train.

## 171-180

## Read Sarah's draft.

Taking care of a pet fish is easy. Fish need a special bowl full of clean water. They need a filter to help keep the water clean.
_ Fish need to be
fed a little bit each day.

## Which sentence should be added to the

 blank to explain more about taking care of a pet fish?1. Sharks are very large fish.
2. Some fish live deep in the ocean.
3. Goldfish are my favorite kind of fish.
$\checkmark$ 4. You should change the water once a week.

## 181-190

## Read the paragraph.

I always look forward to winter for one reason: hot chocolate. Hot chocolate is my favorite. It warms me up when I am really cold.

Which sentence could be added to describe what hot chocolate tastes like?
$\checkmark$ 1. It is sweet and warm and so chocolaty!
2. Hot chocolate comes in different flavors.
3. I have hot chocolate every day in winter.
4. Hot chocolate is drunk by people of all ages.

## 211-220

Your class just finished studying rivers.
Your teacher has assigned you to write a research paper that further explores rivers.

Which of the following would be the best research question?

1. What is your favorite river?
$\mathbf{~ 2}$. How are the Nile and Amazon rivers different?
2. Where is the world's longest river?
3. How many times has the Nile River flooded?

## 221-230

## Read the beginning of Nora's speech.

One sunny day a few years ago, I was out riding my road bike with my Aunt Natalia, a tri-athlete, and some of her training partners. We were riding in a single line at a fast pace on a country road with a nice wide shoulder. (speech continues)

Which revision of the underlined sentences best provides appropriate transition?

1. In addition to that, I knew I needed to stay on the front for, about a minute, but my legs drained immediately, and I began gasping in the humid air.
2. In either case, I knew I needed to stay on the front for, about a minute, and my legs drained immediately, and I began gasping in the humid air
3. Eventually, I knew I needed to stay on the front for, about a minute, and my legs drained immediately, and I began gasping in the humid air.
$\checkmark$ 4. Although I knew I needed to stay on the front for, about a minute, my legs drained immediately, and I began gasping in the humid air.

## 201-210

## Derrick is writing a science report about the

 moons of Jupiter.
## Which source of information will be most useful

 to Derrick?1. a chart that shows the orbits of all the planets
2. a science fiction movie about life on one of Jupiter's moons
$\checkmark$ 3. a book that names and describes the moons of each planet
3. a magazine article that explains the origins of the universe

## above $\mathbf{2 3 0}$

## Which is the best thesis for a persuasive essay

 on World War I?1. World War I began in 1914 when Archduke Ferdinand was shot.
2. The United States tried to stay neutral when World War I began.
3. World War I took place across Europe and Africa, lasting four long years.
, 4. World War I was inevitable due to many complicating factors.

## Language: Understand, Edit for Grammar, Usage

Students understand the conventions of grammar and usage.

## below 161

## Choose the missing word.

The dog $\qquad$ in the house.

1. am
$\checkmark$ 2. is
2. are
3. were

## 161-170

## Choose the missing word.

Can you watch the movie with $\qquad$ ?

1. we
$\sqrt{ }$ 2. us
2. he
3. 1

## 191-200

## Read the sentence.

The student wrote a report $\qquad$ James Madison, the fourth president.

## Which preposition best completes the sentence?

1. in
2. from
$\checkmark$ 3. about
3. with

## 221-230

## Read the draft of Talia's paragraph.

The tallest mountain in the world is Mount Everest. Its elevation is 29,029 feet. It was summited in 1953 for the first time.

Talia wants to combine these statements into one sentence.

## Which best combines these sentences?

1. The tallest mountain, at 29,029 feet, in the world is Mount Everest and it was first summited in 1953.
2. The tallest mountain in the world, Mount Everest (29,029 feet elevation), first successfully was summited in 1953.
$\checkmark$ 3. Mount Everest, the tallest mountain in the world with an elevation of 29,029 feet, was summited in 1953 for the first time.
3. First successfully summited in 1953, the tallest mountain, Mount Everest, in the world has an elevation of 29,029 feet.

## 171-180

## Click on the word in each box that correctly

 completes each sentence.The ice cream truck comes to our apartments every Friday. My mom says buying ice cream from the ice cream truck was one of her favorite parts of child, chilthood We run outside when we hear the truck playing its song. Mom buys an ice cream sandwich, and we split it in half. Then we sit in the sunshine to eat our ice cream sandwich. It fills us both with happier, happiness to share an ice cream.

## 181-190

## Read the sentence.

My mom wakes me up $\qquad$ on
weekdays than on the weekend.

## Which word correctly completes the sentence?

## 1. early

, 2. earlier
3. more early
4. most early

## 211-220

## Click on the word in the parentheses that

 correctly completes each sentence.I have a sister (who $\boldsymbol{v}$, which) is training to be an airline pilot.
I do not like riding roller coasters (which, that $\boldsymbol{v}$ ) flip upside down.
My brother is the only person on the team (who $\boldsymbol{\checkmark}$, which) scored a goal.
My family took me to the ocean, (which $\boldsymbol{J}$, that) is where I learned to swim.

## Read the sentence fragment.

Each penguin in the pool.

## Which is a complete sentence?

1. Each penguin in the deep pool.
2. Each and every penguin in the pool.

『3. Each penguin in the pool swam.
4. Each little penguin in the deep pool.

## above $\mathbf{2 3 0}$

Which sentence shows clear pronounantecedent agreement?

1. We unpacked our books from the boxes and then returned them to the office.
2. As soon as the monkeys left their cages, the janitors cleaned them.
3. If anybody wants to play professional basketball, you have to practice the fundamentals.
$\checkmark$ 4. For English class, the students had to memorize a monologue by their favorite playwright.

## LANGUAGE USAGE

Language: Understand, Edit Mechanics
Students understand the conventions of punctuation, capitalization, and spelling.

## below 161

Which sentence is punctuated correctly?

1. Do flowers bloom in the spring!

マ 2. Do flowers bloom in the spring?
3. Do flowers bloom in the spring,
4. Do flowers bloom in the spring.

## 181-190

## What is the correct spelling for more

 than one cherry?1. cherrys
$\checkmark$ 2. cherries
2. cherryes
3. cherryses

## Which sentence correctly uses quotation marks?

, 1. Mom said, "Brush your teeth before bed."
2. "What did you say? I asked."
3. "My sister said, I need a bedtime story."
4. "Mom," I asked, can I have a glass of water?"

## 171-180

## Read the sentence.

I plan to spend groundhog Day looking for holes in the park with my friend Doug.

Which word in the sentence should begin with a capital letter?

1. plan
$\checkmark$ 2. groundhog
2. park
3. friend

## 191-200

Drag the comma to the correct place in the sentence with dialogue.

Lily studied for her science test all evening.
" I think I will do well on my test today"
Lily told her mother the next morning.

## 0

## 211-220 <br> 221-230

Which sentence has the underlined word spelled correctly?

1. Sarah wore a costum for the school play
, 2. The movie will continue playing during recess.
2. The mannar of his speaking was formal.
3. I discribed the first time I went to the ocean.

## Which sentence is punctuated correctly?

1. Pilar watch out for the bees in the garden.
2. It seems to us, Mr. Jones that the trip should be canceled
3. What are you going to do after practice tonight Tom?
4. If you ask me, Lorraine, this phone book is outdated

## 201-210

## Proofread Carla's paragraph.

I live in an area known as the great southwest-in Taos, New Mexico. Taos is a town well known for its art, history, and recreation. Located just north of the Santa Fe National Forest, Taos offers visitors the chance to ski during the winter months. There are also several museums whose goal it is to preserve artwork from the northern part of New Mexico There are even more options for exploration nearby; Taos is only 40 miles northeast of Santa Fe, the capital of New Mexico.

Which underlined word should be capitalized?
$\checkmark$ 1. southwest
2. north
3. northern
4. northeast

## RIT

## Reference Chart for Mathematics 2 - 5



MAP tests produce scores that make it possible to monitor student growth from year to year along developmental curriculum scales or continua. The chart inside shows examples of the kinds of work students can do at various points along the MAP RIT scale, assuming they have been exposed to content. This type of information is helpful in supporting appropriate instruction.

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## How to use the charts:

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## Operations and

 Algebraic ThinkingStudents can represent and solve problems involving the four operations, understand and apply properties of operations, generate and analyze patterns, and write and interpret numerical expressions.

## 171-180

Click on all the sets that have an odd number of basketballs.


There are 8 hot dog buns in a package. Shay wants to buy the LEAST number of packages to have enough buns for 50 hot dogs.

## Which statement is true?

A. Shay should buy 6 packages. She will have exactly the correct number of buns.
B. Shay should buy 6 packages. She will have 2 buns left over.
C. Shay should buy 7 packages. She will have exactly the correct number of buns.
VD. Shay should buy 7 packages. She will have 6 buns left over.

## Which set contains all the factors of 20?

A. $(5,10,15,20)$
B. $(2,4,5,10)$
, C. $(1,2,4,5,10,20)$
D. $(1,2,4,5,8,10,15,20)$
$[6 \times(9-4)]+[(6+4) \div 2]$
What is the value of the expression?
A. 20
B. 30

又C. 35
D. 38
E. 58

## Numbers and Operations

Students understand the place value system by counting, representing, comparing, rounding, and performing operations with multidigit whole numbers, fractions, and decimals.

## below 161

161-170


How many?
A. 4

『B. 5
C. 6
D. 7
E. 8

171-180

## 99 $-\quad 56$

- 56
A. 34
B. 42
,C. 43
D. 53
E. 155

181-190

## 60

$\times 5$

What is the product?
A. 30
B. 65
rC. 300
D. 365

Drag the fractions from the toolbox to their correct location on the number line.

$\begin{array}{lll}\frac{4}{10} & \frac{9}{10} & \frac{6}{10}\end{array}$
$\frac{5}{7}-\frac{3}{7}=$
A. $\frac{8}{7}$
B. 2
, C. $\frac{2}{7}$
D. 0
E. 7

Drag the numbers to the boxes to make two different fractions equal to $\frac{1}{3}$.


$$
\begin{array}{lllllllllll}
2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12
\end{array}
$$

## Measurement and Data

Students understand and solve measurement problems involving length, mass, liquid volume, time, money, area, perimeter, volume, and angle. They can generate, represent, and interpret data.

## 171-180

## below 161

## 161-170


(1)


The pencil is about how many centimeters long?
A. 4 cm
B. 5 cm
C. 6 cm
$\sqrt{ }$ D. 7 cm
E. 8 cm


## What is the area of the figure?

A. 18 square units
B. 9 square units

VC. 20 square units
D. 16 square units
E. 5 square units

| $\mathbf{1 5 , 0 0 0}$ seconds | $\mathbf{1 8 , 0 0 0}$ seconds |
| :--- | :--- |
| $\mathbf{3 0 , 0 0 0}$ seconds | $\mathbf{3 0 0}$ minutes |
| $\mathbf{1 5 0}$ minutes | $\mathbf{2 5 0}$ minutes |

The list shows how students in a class spent free time.
4 students made art.
2 students played with blocks.
5 students read books.
3 students completed puzzles.

Drag the squares to make a bar graph of the data.

$\square$

221-230

Regina needs $2 \frac{1}{2}$ pounds of fertilizer for her plants. How many ounces is $2 \frac{1}{2}$ pounds?
A. 16 ounces
B. 20 ounces
C. 30 ounces
V. 40 ounces
E. 48 ounces

## Geometry

Students understand and reason with geometric concepts by identifying, describing, creating, and classifying two- and threedimensional figures. They can solve mathematical problems by graphing points on the coordinate plane.

## 171-180

below 161


## Which shape has symmetry?



## 221-230

201-210

## Click on all the obtuse angles.


$\downarrow$

## Which statement about rectangles is true?

A. All rectangles are squares.
B. All rectangles are trapezoids.
C. All rectangles are rhombuses.
$\checkmark$ D. All rectangles are parallelograms.

## Which shape is a parallelogram?


D.

B.

, E.

C.


## RIT

## Reference Chart for Mathematics 6+



MAP tests produce scores that make it possible to monitor student growth from year to year along developmental curriculum scales or continua. The chart inside shows examples of the kinds of work students can do at various points along the MAP RIT scale, assuming they have been exposed to content. This type of information is helpful in supporting appropriate instruction.

Please note that each subject area has a unique alignment to the RIT scale. As a result, scores between subjects are not equivalent.

## How to use the charts:

1. Find the column containing the student's score for a particular subject. For example, if the student's score in "Geometry" is 188, refer to the column labeled 181-190.
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4. The questions further down the page will probably require new learning on the student's part.

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## Operations and Algebraic Thinking

Students can apply and extend previous understandings of arithmetic to algebraic expressions, equations, and inequalities. They can model relationships between quantities using functions and compare, interpret, and build functions in different representations.

## 201-210

 211-220 221-230Simplify.
$5+\left(2+3^{2}\right)-1$
A. 12

『B. 15
C. 17
D. 29
E. 99

If $\mathbf{6} \boldsymbol{n}=\mathbf{1 0 2}, \boldsymbol{n}$ equals
A. 12 .
B. 17 .
C. 108 .
D. 196 .
E. 612 .

Evaluate $g h-b$ if $g=4, h=9, b=12$.
A. 48
B. 37
C. 25
•D. 24
E. 1

Drag a number into each box to represent 64 using exponents.


| 2 | 3 | 4 | 16 | 32 | 60 |
| :--- | :--- | :--- | :--- | :--- | :--- |

Ken works as a salesperson in a local electronics store. He earns $\mathbf{\$ 2 0 0}$ each week plus 6\% commission on his total sales.

Which equation correctly represents Ken's weekly earnings, $E$, based on $s$, his total sales?
A. $E=0.06 s(\$ 200)$
B. $E=6 s+\$ 200$
, C. $E=0.06 s+\$ 200$
D. $E=6 s(\$ 200)$

Which expression is equivalent to $\frac{8^{-9}}{8^{-3}}$ ?
A. $8^{-12}$
B. $8^{-6}$
C. $8^{-3}$
D. $8^{3}$
E. $8^{6}$

## The Real and Complex Number Systems

Students can apply and extend previous understandings of operations to the real and complex number systems by solving problems involving ratio, rate, proportion, rational numbers, irrational numbers, complex numbers, and the coordinate plane.

## 201-210

The sign shows the cost of a bag of apples at Hank's Fruit Stand.


What is the unit price?
, $\mathbf{V}$. $\$ 0.85$ per apple
B. $\$ 0.90$ per apple
C. $\$ 1.10$ per apple
D. $\$ 1.18$ per apple

## 211-220

Which number line shows how to find the sum of $-8+(-2)$ ?


Move the point to the coordinates ( $-5,6$ ).

$\bullet$

## 241-250

A. 3.0

『B. 3.2
C. 3.5
D. 5.0

A \$30.00 pair of jeans is discounted 20\%.

If sales tax is $5 \%$, what will be the final price for the jeans?
A. $\$ 22.80$
B. $\$ 24.00$
C. $\$ 24.20$
D. $\$ 25.20$
E. $\$ 28.35$
A. $8 i \sqrt{3}$
, B. $2+6 i \sqrt{3}$
C. $-i \sqrt{12}$
D. $2-3 i \sqrt{12}$
E. $-4 i \sqrt{12}$

## MATHEMATICS 6+

## Geometry

Students can solve problems involving area, circumference, surface area, volume, and angle measure. They understand congruence and similarity in terms of transformations and apply theorems involving properties of circles and right triangles.

## 201-210

## 221-230

Use the scale drawing of the building to answer the question.


What is the actual height of the building?
A. 2 m
B. 6 m
vC. 72 m
D. 144 m

## Use the graph to answer the question.



The triangle is reflected across the $y$-axis and then reflected across the $x$-axis. $P^{\prime}$ is the image of $P$ after both reflections. What are the coordinates of $P^{\prime}$ ?
A. $(-9,-9)$
C. $(-7,-9)$
•B. $(-9,-3)$
D. $(-7,-3)$

Which of these nets would fold into a closed cube?
, A.

B. $\square$ E.



Use the formulas C= $\pi d$ with 3.14 as an approximation for pi.
Find the circumference of this circle to the nearest inch.
, $A$. 157 in .
B. 150 in .
C. 1570 in .
D. 53.14 in .
E. 46.86 in .


Calculate the surface area of this rectangular solid.
A. $79 \mathrm{~cm}^{2}$
B. $110 \mathrm{~cm}^{2}$
C. $120 \mathrm{~cm}^{2}$
D. $128 \mathrm{~cm}^{2}$
, E. $158 \mathrm{~cm}^{2}$

Click on all the transformations that carry the regular octagon onto itself.


## Statistics and Probability

Students can summarize, represent, and interpret data, including measures of center and variability, and investigate patterns of association in bivariate data. They can understand and evaluate random processes and compute probabilities of events in a uniform probability model.

## 201-210

## 211-220

## 221-230

A box contains 13 balls. 3 balls are red, 5 are blue, 4 are orange, and 1 is yellow.

What is the probability of picking a red ball?
A. $\frac{3}{5}$
v. $\frac{3}{13}$
B. $\frac{3}{10}$
C. $\frac{1}{13}$
E. $\frac{5}{13}$

## 231-240

241-250

## above $\mathbf{2 5 0}$

Look at the box-and-whisker plot.


Which number represents the median of the data?
A. 20
D. 35
•B. 30
E. 45
C. 32.5

Diana received scores of $\mathbf{1 0 0}, 63,80,85$, and 92 on her math tests.

What is her mean (average) score?
A. 83
, B. 84
C. 85
D. 86
E. 87

The table shows family size and recycling information for several different families.

Drag the points onto the graph to make a scatter plot of the data.

| Family <br> Size | Pounds of <br> Recycling |
| :---: | :---: |
| 3 | 19 |
| 4 | 22 |
| 2 | 22 |
| 5 | 32 |
| 3 | 28 |
| 3 | 18 |
| 5 | 34 |

Family Recycling


## $\bullet$



If Sally studies math for 45 minutes a day at home, predict her math grade based on the scatter plot.
A. 50
D. 80
B. 60
E. 90
, C .70

At Washington High School, 20\% of the teachers coach a sports team, and $12 \%$ of the teachers coach a sports team and lead an academic club.

If one teacher chosen at random coaches a sports team, what is the probability that this teacher also leads an academic club?
A. $8 \%$
B. $16 \%$
C. $32 \%$
• $\mathbf{D 0 \%}$

## RIT

## Reference Chart for Science:



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## Physical Sciences

Students demonstrate understanding of the ideas about the interactions of matter, the relationship between force and motion, how energy forms transfer and transform, and the nature and use of waves. Students also demonstrate their understanding of these ideas in the context of the practices of science and engineering.

## 191-200

A student experiments with magnets.
Which group of magnets has attractive forces between all 3 magnets?


## 221-230

Solid steel balls are located on ramps as shown.
Which ball has the greatest gravitational potential energy?


## 181-190

## Which is a solid?

A. air
B. milk
, C. rock
D. water

## 201-210

Students designed four pulley systems to lift a box.
Which pulley system will lift the box with the LEAST input force?
A.

C.

B.

, D.


## 211-220

A physics student has an alarm clock that flashes a beam of white light when the alarm sounds. The student wants a green light from the alarm clock to flash directly into her eyes to help her wake up.

1. Position the mirrors so the light will shine directly into the student's eyes. Drag the 2 mirrors with the appropriate angles into the diagram.
2. Choose the filter that will change the color of the light. Drag the appropriate filter to the box.


## 231-240

## above $\mathbf{2 4 0}$

Students made this model of two electrically charged objects.


## Model 1

Which model shows objects with more energy stored in the electric field between them compared to Model 1?


Which chemical equation represents a neutralization reaction?
A. $\mathrm{CaCO}_{3}(\mathrm{~s}) \longrightarrow \mathrm{CO}_{2}(\mathrm{~g})+\mathrm{CaO}(\mathrm{s})$
B. $2 \mathrm{HCl}(a q)+2 \mathrm{~K}(s) \rightarrow 2 \mathrm{KCl}(a q)+\mathrm{H}_{2}(\mathrm{~g})$
C. $\mathrm{CH}_{4}(g)+\mathrm{O}_{2}(\mathrm{~g}) \rightarrow \mathrm{CO}_{2}(\mathrm{~g})+\mathrm{H}_{2} \mathrm{O}(\mathrm{g})$
$\checkmark$ D. $\mathrm{NaOH}(a q)+\mathrm{HCl}(a q) \rightarrow \mathrm{NaCl}(a q)+\mathrm{H}_{2} \mathrm{O}(l)$

## SCIENCE \| LIFE SCIENCES

## Life Sciences

Students demonstrate understanding of the ideas about the structure and processes of organisms, how matter and energy move through ecosystems, how heredity affects organisms, and how biological evolution affects the unity and diversity of life. Students also demonstrate their understanding of these ideas in the context of the practices of science and engineering

## 191-200

Students made this model of the life cycle of a butterfly.


How should they label stages 1, 2, and 3?
A. egg, pupa, and larva
B. larva, egg, and pupa
, C. egg, larva, and pupa
D. pupa, larva, and egg

## below 181

## The diagram shows the parts of a plant.



Which part is labeled with the $\mathbf{X}$ ?
A. flower
VC. root
B. leaf
D. stem

## 181-190

Students are comparing animals in an environment. They need to describe all predators.

## Which phrase describes all predators?

A. animals that eat plants and fungi
B. animals that hibernate in the winter
, C. animals that hunt other animals for food
D. animals that live in herds with other animals

## 201-210

## What is a function of the respiratory system in animals?

A. to move blood
B. to detect sound
$\mathbf{V}$. to obtain oxygen
D. to break apart food

## 211-220

Students test how quickly they can hit a button after hearing a sound. The student with the quickest time took 0.17 seconds. They wonder why no one was faster than 0.17 seconds. Students make a model to explain what happens in the nervous system during this time.

Complete the model by dragging statements to the empty boxes. Statements can be used more than once or not at all.


## 221-230

A student plans to cross 2 purebred guinea pigs. One has black fur and one has white fur. The color of a guinea pig's fur depends on a single gene pair. Black fur is dominant to white fur.

## If there are 6 guinea pig offspring, what fur color will they most likely have?

A. 3 with black fur and 3 with white fur
B. 4 with black fur and 2 with white fur
C. 5 with black fur and 1 with white fur
, D. 6 with black fur and 0 with white fur

Why is DNA the storage molecule for hereditary information?
A. It contains the nitrogenous base uracil
B. It contains strong covalent bonds
$\boldsymbol{\checkmark}$ C. It can be replicated and transcribed.
D. It translates the genetic code.

## his theories?

A. Variation is a characteristic of all living things.

『B. Acquired characteristics can be passed on to offspring.
C. Individuals that are best adapted tend to survive and reproduce.
D. Organisms tend to produce more offspring than the environment can support.

## Earth and Space Sciences

Students demonstrate understanding of the ideas about the history of Earth in terms of the Universe, the Solar System, and the fossil record; Earth's systems including the cycling of matter, plate tectonics, weather, and climate; and how Earth is affected by human activity. Students also demonstrate their understanding of these ideas in the context of the practices of science and engineering.

## 191-200

Show the position of the Sun in the sky at 6 a.m.,
12 noon, and 6 p.m. in March by dragging the 3 Suns to the correct boxes.

(6m) (6pm (n)

## below 181

## Which object is shaped most like Earth?

A. an oval egg
$\sqrt{ }$ B. a round ball
C. a flat pancake
D. a square block

## 181-190

Which observation of weather usually indicates rain?
A. The wind speed is low.
$\checkmark$ B. The sky has many clouds.
C. The air temperature is high.
D. The wind direction is from the north.

## 201-210

How does air in Earth's atmosphere move while being heated?
A. around in circles
$\checkmark$ B. upward in columns
C. downward in funnels
D. horizontally in layers

## 211-220

This GIS map shows a region where scientists placed a wind generator within the circled area.


How did the geographic information from this map allow scientists to choose an appropriate location for the wind generator?
A. High winds often occur far from rivers.
B. The lack of vegetation allows high winds to develop.
マC. High winds are associated with mountain pass areas.
D. The nearby flat plains produce fast-moving air masses.

## 221-230

In May, a student observes the constellation Virgo in one area of the sky. One month later, the student observes the constellation Bootes in the same area of the sky.


Why does the student observe the constellation Virgo in May and then Bootes in June?
A. Stars fade in and out.
B. Earth rotates on its axis.
C. Stars revolve around the Sun.
vD. Earth revolves around the Sun.

## 231-240

The diagram represents the water cycle in an area with a lake and plants.

Label the arrows by dragging the names of the processes into the appropriate boxes.


## above $\mathbf{2 4 0}$

## Which evidence does NOT support the theory of

 plate tectonics?A. the mapping of glacial features on different continents
B. the matching of fossil types in South America and Africa
C. the mid-ocean ridges with alternating magnetic stripes on the seafloor
VD. the mass extinction of species on a continent within a small period of time

# NWEA 

Northwest Evaluation Association

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Founded by educators 40 years ago, Northwest Evaluation Association ${ }^{\text {TM }}$ (NWEA ${ }^{\text {MM }}$ ) is a global not-for-profit educational services organization known for our flagship interim assessment, Measures of Academic Progress ${ }^{\oplus}$ (MAP®). More than 7,400 partners in U.S. school districts, education agencies, and international schools trust us to offer prekindergarten through grade 12 assessments that accurately measure student growth and learning needs, professional development that fosters educators' ability to accelerate student learning, and research that supports assessment validity. To better inform instruction and maximize every learner's academic growth, educators currently use NWEA assessments and items with nearly 10 million students.

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