## ELEMENTARY GRADES 4-5 CURRICULUM OVERVIEW <br> MARKET <br> SQUARE EDUCATION

MARKET SQUARE EDUCATION
ACCELERATE
EDUCATION

## 4-5 Elementary Curriculum Overview

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## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Course Structure

The 4-5 Language Arts courses are broken down into 2 semester courses per grade level (for example, Language Arts 4A and 4B). Each semester course consists of 6 modules to be completed in 18 weeks. Within each module is 3 units (these are 3 separate folders) that cover a topic in language arts. Each unit folder has lessons in it related to that topic. To stay on pace a student should complete the lessons in a folder in 1 week. Completing 1 complete module in 3 weeks.


Inside each unit are lessons, quizzes, and assignments for students to complete. When a student completes all units in a module, they take a module exam which covers all of the units in the module.

| Course <br> Time <br> Length | \# of Modules | \# of Units per Module | \# of Lessons Per Unit | Common Module Tasks | Assessments |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $1$ <br> semester | 6 | 3 | 2-4 <br> Lessons | - Lessons that include videos, reading, and interactive games. <br> - Novel Study <br> - Assignments <br> - Quizzes <br> - Discussion Boards | - Quizzes for each lesson <br> - Module Exam |

## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Lesson Structure

The lessons in this course follow a standard overall structure. Each lesson includes a Learning Coach tab that lists the lesson's objectives, the key terms used in the lesson, and the skills students need to succeed with the lesson. Each lesson ends with a brief quiz designed to help you determine if students can meet the lesson's objectives. The number of pages in each lesson, and the types of activities students do for each lesson, may vary widely.

In general, each unit or set of related lessons consists of the following:

| Lesson Component | Description |
| :--- | :--- | :--- |
| Learning Coach Page | Students do not see this page when they go to a lesson, but they can click <br> to see if they choose. It includes objectives, prerequisite skills, a list of <br> materials needed, and key words. As such, it can be a useful guide for a <br> teacher or an adult that could be helping the student at home. |
| Video Presentations | Students will view videos throughout the course; every unit includes at <br> least one video. Some will contain many more videos, and some will have <br> fewer, depending on the topics covered. |
| Hidden Answer | Often, lesson pages ask students to think about the answer to a question <br> before clicking a button to see the answer. Encourage students to make <br> sure they have a clear response in mind for each question before clicking to <br> see the answer. |
| Practice Activities | Students will encounter many chances to practice skills and receive <br> feedback on their progress during a lesson. Practice activities for this course <br> take the following forms: drag-and-drop exercises, multiple-choice <br> questions, slideshows with hidden-answer questions, and worksheets that <br> students will fill out and send to you for feedback. |
| Formative | Students will complete a "mini-quiz" at the end of each lesson. Each of <br> these quizzes will require students to answer two to four questions. The <br> purpose of this assessment is to tell you (and the student) how well the <br> student is grasping the lesson's concepts. |
| Assessments | Several times in each unit, students will complete longer, more open-ended <br> assignments to demonstrate what they've learned. Some lessons also <br> include writing assignments that students will submit to the teacher. For <br> writing assignments, students can type their work into a worksheet or a <br> word processing document, save the file, and send it to the teacher using <br> their dropbox. Alternatively, they can print out the worksheet, write their <br> answers in pencil or pen--then scan the page and send it to to the teacher <br> as an image file. |
| At the end of each unit, students will complete a ten-question exam that |  |
| assesses their ability to apply skills covered in that set of related lessons. |  |

## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Learning Coach Tab

Each lesson has a learning coach tab. The learning coach tab is a tab that has information for the adult that is helping the child progress through the course at home, it could be a parent, a grandparent or any other designated adult in that household.

The Learning Coach Tab is designed to help an adult who is at home with the student guide them through a lesson. Learning objectives, prerequisite skills, and any materials needed to complete the lesson will be listed. Look below to see a sample page of what the Learning Coach tab will look like under each lesson tab.

```
Objectives
Students will:
    1. This will list what students will be doing
        in a lesson.
```

Key Words
Any key concepts within the lesson will be listed here.

```
Skills Needed
Students must be able to:
1. This will list the skills needed to complete the lesson objective.
Materials Needed
Students will need:
1. This will list the materials needed for the lesson.
```


## Materials Needed

Materials needed for each lesson will be listed prior to the lesson in the learning coach tab or a materials list for the course can be found in the Resources Module at the beginning of each course.

Students are expected to have typical school supplies such as: paper, pencils, crayons, markers, scissors, glue, etc. Students will also be expected to have access to the books used in the Novel Study. The books needed are listed in the course.

## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Novel Study

Most reading specialists believe that allowing students some choice in what they read for school is one of the best ways to help them become life-long, fluent readers. Another way to encourage independent reading is to help a student find books that interest them and reach them where they are in life. For the independent reading for this course, students may choose among several high-interest, high-quality novels written especially for readers in upper elementary grades.

The novel reading assignments in the course serve two goals:

1. To help students become more fluent readers and
2. To help students transfer what they learn in each lesson to a broader context.

In service of both goals, students should choose novels that they feel they will enjoy reading and that they will be motivated to finish. Some of the skills that students are asked to apply later in the semester require them to have read at least one entire novel for the course.

The teacher should work with their students to set goals related to how much reading they will do each day or each week. The first few lessons in the course provide tools that the teacher and their students may use to establish benchmarks and set goals for reading growth. The other lessons provide worksheets or step-by-step instructions for applying course concepts to independent reading.

The novels that students may choose are listed below by grade level and semester, there is a study guide to go with each novel that the student can access in the course.

## Grade 4 Novels

| Semester A Novels | Semester B Novels |
| :--- | :--- |
| Bud, Not Buddy by Christopher Paul Curtis | Wringer by Jerry Spinelli |
| Tales of a Fourth Grade Nothing by Judy Blue | Shiloh by Phyllis Reynolds Naylor |
| The Tale of Despereaux by Kate DiCamillo | Pictures of Hollis Woods by Patricia Reilly Giff |

Grade 5 Novels

| Semester A Novels | Semester B Novels |
| :--- | :--- |
| Because of Winn Dixie by Kate DiCamillo | Maniac Magee by Jerry Spinelli |
| Number the Stars by Lois Lowry | Out of the Dust by Karen Hesse |
| The Watsons Go To Birmingham-1963 by <br> Christopher Paul Curtis | Island of the Blue Dolphin by Scott O'Dell |

## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Writing: Fourth Grade

By fourth grade, most students are ready to practice sustaining focus on a single writing assignment over a period of days or weeks, working both independently and with varying levels of direction from teachers.

The first writing assignment in this course is designed to take longer than later writing assignments. There are two reasons for this:

1. At the beginning of the course, students are guided more carefully and deliberately through a standard writing process so that they can learn or review what should happen at each stage. They will apply this knowledge to later assignments.
2. The first assignment is a short story, and the first semester covers a wide range of skills related to reading and writing fiction. Each lesson is meant to contribute to students' understanding of fiction as they write their own short story.

In the course's first semester, students will also write an opinion essay and a compare and contrast essay. Students will spend much of the second semester researching and writing a report of information. The course's writing assignments are further described in the table below.

| Narrative | Over several lessons, the student plans a narrative on a topic of his or her <br> choosing. Over several more lessons, the student drafts, revises, and edits the <br> narrative, using feedback from you and from peer reviewers. |
| :--- | :--- |
| Opinion Essay | Over several lessons, the student plans, drafts and revises an essay elaborating <br> on his or her opinion about a topic or text. |
| Compare and Contrast Essay | Over several lessons, the student plans, drafts and revises an essay that <br> compares similar myths from two different cultures. |
| Research Project | Throughout the last ten lessons of the course, the student plans and completes <br> a research project, producing a written report, an oral report, and a multimedia <br> presentation reflecting the results of his or her research. |

The level of support a teacher will provide as students work through these assignments should match the students' abilities and their readiness to take responsibility for completing the assignment in stages. Some things to decide as you guide students through these longer assignments include:

```
At what points in the process will you provide feedback on student's work toward completing the long-term assignment? How much feedback will you provide, and what kind of feedback?
How will you provide students with a broader audience for their work? Other than you, who will read the student's writing, and how you will facilitate that interaction?
Which stages in the process may require additional support from you in the form of conferences,
demonstrations, or group discussions? (You won't know this until you understand what skills your students have.)
```

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## 4-5 Elementary Curriculum Overview

## English Language Arts Grades 4-5

## Writing: Fifth Grade

The first writing assignment for $5^{\text {th }}$ Grade is designed to take longer than later writing assignments. There are two reasons for this:

1. At the beginning of the course, students are guided more carefully and deliberately through a standard writing process so that they can learn or review what should happen at each stage. They will apply this knowledge to later assignments.
2. The first assignment is a short story, and the first semester covers a wide range of skills related to reading and writing fiction. Each lesson is meant to contribute to students' understanding of fiction as they write their own short story.

In the course's first semester, students will also write an opinion essay. Students will spend much of the second semester researching and writing a report of information. The course's writing assignments are further described in the table below.

| Narrative | Over several lessons, the student plans a narrative <br> on a topic of his or her choosing. Over several more <br> lessons, the student drafts, revises, and edits the <br> narrative, using feedback from you and from peer <br> reviewers. |
| :--- | :--- |
| Opinion <br> Essay | Over several lessons, the student plans, drafts and <br> revises an essay elaborating on his or her opinion <br> about a topic or text. |
| Research |  |
| Report | Throughout the last ten lessons of the course, the <br> student plans and completes a research project, <br> producing a written report, an oral report, and a <br> multimedia presentation reflecting the results of <br> his or her research. |

The level of support you provide as students work through these assignments should match your students' abilities and their readiness to take responsibility for completing the assignment in stages. Some things to decide as you guide students through these longer assignments include:

```
At what points in the process
will you provide feedback on
student's work toward
completing the long-term
assignment? How much
feedback will you provide, and
what kind of feedback?
How will you provide students
with a broader audience for
their work? Other than you,
who will read the student's
writing, and how you will
facilitate that interaction?
Which stages in the process
may require additional support
from you in the form of
conferences, demonstrations,
or group discussions? (you
won't know this until you
understand what skills your
students have.)
```

Generally, students try harder

```
```

Generally, students try harder

``` when they believe their writing will be read. Feedback proves that you read their words and thought about them. But too much feedback may overwhelm students and 90 unread.
Few things inspire students more than knowing that a real audience of readers will see their work. However, managing peer review sessions and writing workshops adds a layer to your overall management load.
you may want to wait until you know more about your students' needs and learning styles before setting a regular schedule of real-time meetings.
```


## 4-5 Elementary Curriculum Overview

## Math Grades 4-5

## Course Set Up

The 4-5 Math courses are broken down into 2 semester courses per grade level (for example, Math 4A and $4 B$ ). Each semester course consists of 6 modules to be completed in 18 weeks. To stay on pace a student should complete the lessons in a module in 3 weeks.

Students will learn math topics outlined in this course drawing from a variety of sources, including hands on activities, interactive lessons, and practical math applications. When finished with Math 4, students will have solid math skills in many different areas as shown below.

| Course Time Length | \# of Modules | Common Module Tasks | Assessments |
| :---: | :---: | :---: | :---: |
| 1 semester | 6 | - Lessons that include videos, reading, and interactive games. <br> - Assignments <br> - Quizzes | - Quizzes for each lesson <br> - Module Exam |

## Module Structure

There is generic structure that most lessons follow in a module.

Introduction of New Concepts:

New concepts will be introduced in each module through text, video, and interactives.

Practicing New Concepts:

Once introduced, new concepts will be practiced through interactives, worksheets, and work in IXL.

Reinforcement of Past Concepts:

Previously learned concepts will be readdressed throughout the year to strengthen the students' understanding.

4-5 Elementary Curriculum Overview

## Math Grades 4-5

## Lesson Structure

Each lesson should take students about 45-60 minutes to complete.
While the overall structure is consistent from lesson to lesson, lessons will vary in the order and frequency with which they use or offer activity types. Each theme-based module contains several lessons. All lessons begin with a lesson intro page, and all lessons end with a computer-scored quiz. The number of pages in each lesson, and the types of activities students do for each lesson, may vary widely.

In general, each unit or set of related lessons consists of the following:
$\left.\begin{array}{|l|l|}\hline \text { Lesson Component } & \begin{array}{l}\text { Description } \\ \text { Lesson Intro Page }\end{array} \\ \hline \text { This is the first page that students see when they go to a lesson. It includes } \\ \text { objectives, prerequisites, materials, and key words. As such, it can be a } \\ \text { useful guide for a teacher or learning coach. }\end{array}\right\}$

## 4-5 Elementary Curriculum Overview

## Math Grades 4-5

## Materials Needed

Materials needed for each lesson will be listed prior to the lesson on the Lesson Intro Page or a materials list for the course can be found in the Resources Module at the beginning of each course.

Students are expected to have typical school supplies such as: paper, pencils, crayons, markers, scissors, glue, etc. Students will also be expected to have access to books at their independent reading level.


## 4-5 Elementary Curriculum Overview

## Math Grades 4-5

## Math Assignments

In each lesson students will encounter activities for them to download, print and complete. These activities are worksheets. Students can type in the PDF worksheet, save it and submit them in Buzz. They can also print them and write on them, scan and submit them after the lesson. In order to save and submit pdf documents be sure the student views the PDF section in Getting Started found in the Resources Module.

| Student Name: |
| :---: |
| Multiplication Comparison |
| Directions: Read each comparison problem and then write an equation that matches it. пш"! |
| 1. Lily read 8 times as many pages as Ralph did yesterday. Ralph read 7 pages. How many pages did Lily read? |
| 2. Judy ran 3 miles last week. Jill ran 6 times as many miles. How many miles did Jill run? |
| 3. David ate 4 times as many gumdrops as Bruce. Bruce ate 5 gumdrops. How many gumdrops did David eat? |
| 4. In June, it was sunny twice as many days as it was rainy. If it was rainy for 10 days, how many sunny days were there? |
| 5. Tara was so tired after running that she drank 8 ounces of water. Bella was even more tired, so she drank 3 times as much as Tara. How much did Bella drink? |



## 4-5 Elementary Curriculum Overview

## Science Grades 4-5

## Course Set Up

Science in grades 4-5 provides a rich multimedia experience, but also provides students opportunities for hands-on activities, when appropriate. Many standards require the use of some off-line activity, particularly when reading literature or performing labs. Each lesson lists the materials needed for that lesson, but there is a master materials list within the syllabi by lesson. Science courses are aligned to Next Generation Science Standards (NGSS). Each grade has 2 semester courses. Each course has 6 modules in it. The pacing per module should be 3 weeks so that the student can finish the course in 1 semester which is 18 weeks. The chart below summarizes the overarching science topics covered in each grade level.

| Course | Life Science | Earth and Space Science | Physical Science | Science/ <br> Engineering <br> Practices |
| :---: | :---: | :---: | :---: | :---: |
| Science 4A and B | Marine Life <br> Characteristics of Life <br> Animal and Plant Cells <br> Classifying Animals and Plants <br> Plant Systems <br> Human Body Systems <br> Human Nutrition and Health <br> Life Cycles <br> Natural Reponses <br> Food Webs and Food Chains <br> Biodiversity and Extinction <br> Humans and the Environment | Earth's Features <br> Ocean Features <br> Freshwater on Earth (Water <br> Cycle) <br> Weathering <br> Erosion <br> Deposition <br> Volcanoes <br> Earthquakes <br> Natural Disasters <br> Mountain and Ridge <br> Formation <br> Atmosphere <br> Weather <br> Climate <br> Space <br> Geologic History | Matter <br> Periodic Table <br> Mixtures and <br> Compounds <br> Solutions <br> Force and Motion <br> Friction <br> Sound <br> Light <br> Heat and Temperature <br> Electricity <br> Magnetism | Using the Scientific <br> Method <br> Measurement <br> Science and <br> Technology |
| Science <br> 5A and B | Energy Flow (Food chains, webs, photosynthesis) <br> Ecosystems <br> Plants <br> Nutrition <br> Cell Division | Intro to the Solar System The Big Bang Earth's Tilt and the Seasons Life on Earth Freshwater on Earth Renewable and Nonrenewable Resources Soil | Force and Motion <br> Speed <br> Gravity, Mass and <br> Weight <br> Acceleration <br> Matter <br> Mixtures and <br> Compounds <br> Sound and Light | Investigations and Conclusions |

4-5 Elementary Curriculum Overview

## Science Grades 4-5

## Lesson Structure

Lessons have a variety of learning materials for the students including video.
While the overall structure is consistent from lesson to lesson, lessons will vary in the order and frequency with which they use or offer activity types. Each theme-based module contains several lessons. All lessons begin with a lesson intro page, and all lessons end with a computer-scored quiz. The number of pages in each lesson, and the types of activities students do for each lesson, may vary widely.

In general, each lesson consists of the following:
$\left.\begin{array}{|ll|}\hline \text { Lesson Component } & \begin{array}{l}\text { Description } \\ \text { Lesson Intro Page }\end{array} \\ \hline \text { This is the first page that students see when they go to a lesson. It includes } \\ \text { objectives, prerequisites, materials, and key words. As such, it can be a } \\ \text { useful guide for a teacher or learning coach. }\end{array}\right\}$

## 4-5 Elementary Curriculum Overview

## Social Studies Grades 4-5

## Course Overview

Social Studies in grades 4-5 cover a variety of topics. Each grade has 2 semester courses. Each semester last 18 weeks. There are 6 modules in each course. Each module is meant to be completed in 3 weeks. The chart below summarizes the overarching social studies topics covered in each grade level.

| Course | Topics Covered |  |
| :---: | :---: | :---: |
| Social Studies $4 A$ and $B$ | Topography <br> Geography <br> Native Americans <br> Research Skills <br> State history/geography <br> Colonial History <br> Frontier life <br> Early settlers from particular areas <br> Research skills <br> Culture of Colonial settlers <br> Native Americans and Colonial settlers <br> The California God Rush <br> The evolution of transportation <br> The road to statehood |  |
| Social Studies 5A and B | American History: <br> Chronology <br> Settlement and Growth <br> People in Societies: <br> Cultures <br> Native American Interaction <br> North American Geography: <br> Location <br> Places and Regions <br> Human Environmental Interaction <br> Economics: <br> Scarcity and Resource Allocation <br> Production, Distribution and Consumption <br> Markets <br> United States Government: <br> Role of Government <br> Rules and Laws <br> Citizenship Rights and Responsibilities: <br> Participation <br> Rights and Responsibilities <br> Social Studies Skills and Methods: <br> Obtaining Information <br> Thinking and Organizing <br> Communicating Information <br> Problem Solving <br> American History: <br> Western Frontier <br> The Underground Railroad <br> Sociology: <br> Women in the U.S. <br> Diverse culture in the US <br> Economics: <br> Planning your Trip | Geography: <br> Climate <br> Regions of the U.S. <br> Civics: <br> Local Government |

## 4-5 Elementary Curriculum Overview

## Social Studies Grades 4-5

## Lesson Structure

Lessons have a variety of learning materials for the students including video.
While the overall structure is consistent from lesson to lesson, lessons will vary in the order and frequency with which they use or offer activity types. Each theme-based module contains several lessons. All lessons begin with a lesson intro page, and all lessons end with a computer-scored quiz. The number of pages in each lesson, and the types of activities students do for each lesson, may vary widely.

In general, each lesson consists of the following:
\(\left.$$
\begin{array}{|l|l|}\hline \text { Lesson Component } & \begin{array}{l}\text { Description } \\
\text { Lesson Intro Page }\end{array}
$$ <br>
\hline This is the first page that students see when they go to a lesson. It includes <br>
objectives, prerequisites, materials, and key words. As such, it can be a <br>
useful guide for a teacher or learning coach. <br>
Students will view videos throughout the course; every unit includes at <br>
least one video. Some will contain many more videos, and some will have <br>

fewer, depending on the topics covered.\end{array}\right]\)| Often, lesson pages ask students to think about the answer to a question |
| :--- |
| before clicking a button to see the answer. Encourage students to make |
| sure they have a clear response in mind for each question before clicking to |
| see the answer. The general idea of these activities is to encourage student |
| engagement with the content. |


[^0]:    Generally, students try harder when they believe their writing will be read. Feedback proves that you read their words and thought about them. But too much feedback may overwhelm students and go unread.

    Few things inspire students more than knowing that a real audience of readers will see their work. However, managing peer review sessions and writing workshops adds a layer to your overall management load.

    You may want to wait until you know more about your students' needs and learning styles before setting a regular schedule of real-time meetings.

