



## **Saint Joseph Middle School**

**Grades 6, 7, & 8**

Dear Parents,

We hope that this summer will be a time of rest and relaxation for you and your families. We know that when it is time to return for the 2015-2016 school year, the students will be ready to take on the challenges which lie ahead. As a faculty, we will work together to ensure a successful year for all students.

Summer reading and math work has been assigned for students entering 6th, 7th, and 8th grades. It can be accessed by going onto the Saint Joseph School website at [www.sjsdanbury.org](http://www.sjsdanbury.org) and clicking on "Summer Work" where the appropriate assignments can be printed. All work should be completed by September 1, 2015.

Thank you in advance for your support. Have a safe and blessed summer.

Sincerely,  
Mrs. Fleming  
Mrs. Varian  
Mrs. Neilson  
Sister Frances  
Mrs. Reilly



# Saint Joseph Middle School Supply List

## Grades 6, 7, & 8

### General Supplies:

Pens  
Pencils & Erasers  
Colored Pencils  
White-Out  
Glue Stick  
Small Stapler  
Pencil Sharpener  
Scotch Tape  
Scissors  
Ruler  
Pencil/Supply Pouch  
Earbuds for iPad  
4 Boxes of Tissues  
2 packages of Loose Leaf Paper

### ELA:

1 Purple Single Subject Notebook  
1 Purple Pocket Folder  
1 Book Cover for Large Hardcover Textbook  
Sticky Notes (8<sup>th</sup> grade only)

### Math:

1 Blue Single Subject Notebook  
1 Blue Pocket Folder  
1 Book Cover for Large Hardcover Textbook  
1 Small Calculator  
1 Pad of Graph Paper (8<sup>th</sup> grade only)

### Science:

1 Green Single Subject Notebooks  
1 Marble Composition Book  
1 Green Pocket Folder  
1 Book Cover for Large Hardcover Textbook  
\$35 Science Lab Fee

### Social Studies:

1 Red Single Subject Notebook  
1 Red Pocket Folder  
1 Book Cover for Large Hardcover Textbook

### Religion:

1 Yellow Single Subject Notebook  
1 Yellow Pocket Folder  
1 Book Cover for Large Hardcover Textbook

### Spanish:

Spanish/English Dictionary (recommended)  
1"-2" Binder with Divider Tabs (6<sup>th</sup> grade only)  
7<sup>th</sup> and 8<sup>th</sup> Graders will leave their current Spanish binders in school for next year.



## 2015 Summer Reading For Incoming 8th Grade – Mrs. Fleming

Girls - Read **Esperanza Rising** by Pam Munoz Ryan

Boys - Read **The Slave Dancer** by Paula Fox

Use the following guidelines to **annotate** the reading.

\*\*\*Annotating can be done right in your book, on sticky notes stuck to the pages, or, if the book does not belong to you, in a separate notebook.

### 1. Main Idea

Write one sentence at the conclusion of each chapter that summarizes the main idea.

### 2. Setting

Note each time a new setting is introduced.

### 3. Characters

Note passages that characterize the main characters. This includes passages that:

- introduce a new character
- have character descriptions
- describe the character's values, motives, goals, and beliefs
- describe the character's thoughts and actions

### 4. Vocabulary

As you read, locate unfamiliar words and start a vocabulary list which includes words, page # on which the word was found, and the dictionary definition of the word.

### 5. Literary Devices

Note examples of literary devices such as foreshadowing, symbolism, theme, etc.

### 6. Connections

Make text-to-text connections, text-to-world connections, and text-to-self connections.

### 7. Questions/Comments

Note passages that you find interesting, confusing, or remarkable for some reason.

Note your thoughts about these passages.

# Fractions

Name \_\_\_\_\_

Date \_\_\_\_\_

Add. Remember to find the least common denominator first. Reduce your answer to lowest terms.

1.  $\frac{2}{3} + \frac{5}{9} =$

2.  $\frac{5}{6} + \frac{7}{12} =$

3.  $7\frac{3}{5} + 2\frac{1}{2} =$

4.  $17\frac{14}{15} + 2\frac{9}{10} =$

Subtract. Remember to find the least common denominator first. Reduce your answer to lowest terms.

5.  $\frac{4}{5} - \frac{3}{4} =$

6.  $\frac{11}{15} - \frac{2}{5} =$

7.  $8\frac{1}{6} - 7\frac{3}{4} =$

8.  $6 - 2\frac{8}{11} =$

Multiply.

Remember to change mixed numbers to improper fractions first. Reduce your answer to lowest terms.

9.  $\frac{3}{5} \cdot \frac{1}{3} =$

10.  $\frac{5}{6} \cdot \frac{2}{5} =$

11.  $8\frac{1}{3} \cdot \frac{3}{4} =$

12.  $1\frac{5}{7} \cdot 2\frac{1}{4} =$

Divide.

Remember to change mixed numbers to improper fractions first. Reduce your answer to lowest terms.

13.  $\frac{3}{7} \div \frac{1}{2} =$

14.  $\frac{7}{8} \div \frac{3}{4} =$

15.  $6\frac{2}{3} \div 5 =$

16.  $9\frac{3}{8} \div 3\frac{3}{4} =$

## Fraction Word Problems

Name \_\_\_\_\_

Date \_\_\_\_\_

1. In order to make your costume for the school play, you need  $\frac{2}{9}$  yard of fabric for the pants and  $\frac{1}{2}$  yard fabric for a matching jacket. How much fabric do you need for the costume?  
\_\_\_\_\_
2. In a science experiment, Plant A grew  $1\frac{3}{4}$  inches one week and  $1\frac{5}{8}$  inches the next week. How many inches did it grow during the two weeks?  
\_\_\_\_\_
3. A recipe calls for  $\frac{3}{4}$  cup of shredded cheese. If you have  $\frac{1}{8}$  cup, how much more do you need to shred?  
\_\_\_\_\_
4. On Monday, a comet was visible for  $3\frac{5}{6}$  hours. Three days later, it was visible for only  $1\frac{3}{4}$  hours. For how much less time was the comet visible on Thursday?  
\_\_\_\_\_
5. On Tuesday, 35 students bought hot lunch.  $\frac{3}{5}$  of them bought milk. How many students bought milk?  
\_\_\_\_\_
6. A recipe for oatmeal cookies calls for  $1\frac{3}{4}$  cup of raisins. If you only want to make  $\frac{1}{2}$  a batch, how many cups of raisins should you use?  
\_\_\_\_\_
7. Miss Suzie uses  $\frac{1}{8}$  pound of cheese for each sandwich she makes. How many sandwiches can she make with a 5-pound block of cheese?  
\_\_\_\_\_
8. If you bought  $7\frac{1}{2}$  pounds of gumballs and divided them up into baggies that weighed  $\frac{3}{4}$  pound each. How many baggies would you be able to fill?

# Decimals

Name \_\_\_\_\_

Date \_\_\_\_\_

Add. Remember to line up the decimal points.

1.  $3.5 + 8.4 =$

2.  $43.57 + 104.6 =$

3.  $19 + 0.08 =$

4.  $22.63 + 1.694 =$

Subtract. Remember to line up the decimal points.

5.  $17.6 - 9.3 =$

6.  $32.3 - 12.72 =$

7.  $23.96 - 19.931 =$

8.  $63.36 - 0.007 =$

Multiply. Remember, the number of decimal places in the product equals the sum of the decimal places in the factors.

9.  $9.6 \times 5 =$

10.  $1.35 \times 21.4 =$

11.  $16.1 \times 3.66 =$

12.  $8 \times 3.4 =$

Divide. Remember to move the decimal points the number of places needed to make the divisor a whole number.

13.  $2.52 \div 3 =$

14.  $8.43 \div 0.12 =$

15.  $20.7 \div 0.6 =$

16.  $6 \div 0.25 =$

## Decimal Word Problems

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Hair grows about 0.01 inch daily. How much does hair grow in one week?  
\_\_\_\_\_
2. It takes 4.5 hours to drive from New York to Washington, D.C. How long does it take to make a round trip?  
\_\_\_\_\_
3. If you buy a book that costs \$7.47 and pay with a twenty dollar bill, how much change should you get?  
\_\_\_\_\_
4. If you ran 3.54 miles on Saturday and 3.6 miles on Sunday, how much more did you run on Sunday?  
\_\_\_\_\_
5. A can of dog food costs \$1.29. How much will 8 cans of dog food cost?  
\_\_\_\_\_
6. While training for a triathlon, you swim 1.6 miles, you run 4.35 miles, and you cycle 14.25 miles. How many miles did you swim, run, and cycle in all?  
\_\_\_\_\_
7. You and two friends have lunch at a restaurant. The bill is \$23.76. If you share the bill equally, how much do you each owe?  
\_\_\_\_\_
8. You and your family drove 329.44 miles on vacation this summer. If the car averaged 28.4 miles per gallon of gas, how many gallons of gas did the car use?  
\_\_\_\_\_

# Integers

Name \_\_\_\_\_

Date \_\_\_\_\_

Add.

1.  $-6 + (-8) =$

2.  $-9 + (-23) =$

3.  $-28 + 82 =$

4.  $-331 + 155 =$

Subtract.

5.  $-5 - 7 =$

6.  $63 - 72 =$

7.  $-9 - (-16) =$

8.  $21 - (-82) =$

Multiply.

9.  $6 \times (-7) =$

10.  $-30 \times (-30) =$

11.  $-5 \times 10 =$

12.  $16 \times (-2) =$

Divide.

13.  $-32 \div 8 =$

14.  $57 \div (-3) =$

15.  $-23 \div (-1) =$

16.  $-100 \div 4 =$



## Integer Word Problems

Name \_\_\_\_\_

Date \_\_\_\_\_

1. A submarine at the water's surface dropped down 100 feet. After thirty minutes at that depth, it dove an additional 500 feet. What was its depth after the second dive?  
\_\_\_\_\_
2. On a cruise ship, your cabin is 6 feet below sea level. The main deck is 35 feet above your cabin. How far above sea level is the main deck?  
\_\_\_\_\_
3. The temperature at midnight was -2 degrees. During the next 4 hours, a decrease of 4 degrees was recorded. What was the temperature at 4 A.M.?  
\_\_\_\_\_
4. A 200-foot column holds an oil rig platform above the ocean's surface. The column rests on the ocean floor 175 feet below sea level. How high is the platform above sea level?  
\_\_\_\_\_
5. If you have \$6 in your checking account and you write a check for \$10, what is your new checkbook balance?  
\_\_\_\_\_
6. The surface of an underground water supply was 10 meters below sea level. After one year, the depth of the water supply has decreased by 9 meters. What is the depth below sea level of the water's surface now?  
\_\_\_\_\_

## Percents

Name \_\_\_\_\_

Date \_\_\_\_\_

1. 20% of 10 = \_\_\_\_\_

2. 25% of 45 = \_\_\_\_\_

3. 16% of 90 = \_\_\_\_\_

4. 88% of 15 = \_\_\_\_\_

5. \_\_\_\_\_% of 25 = 15

6. \_\_\_\_\_% of 75 = 33

7. \_\_\_\_\_% of 15 = 6

8. \_\_\_\_\_% of 80 = 40

9. 20% of \_\_\_\_\_ = 15

10. 80% of \_\_\_\_\_ = 56

11. 25% of \_\_\_\_\_ = 19

12. 30% of \_\_\_\_\_ = 15

## Percent Word Problems

Name \_\_\_\_\_

Date \_\_\_\_\_

Hint: Write an equation using the information given, then solve it!

1. In a group of 60 children, 12 have brown eyes. What percent have brown eyes?  
\_\_\_\_\_
2. A salesman makes 5% commission on all he sells. How much does he have to sell to make \$1500?  
\_\_\_\_\_
3. A sales tax of 5.75% is charged on a shirt priced at \$42. How much sales tax must be paid?  
\_\_\_\_\_
4. A scale model of a building is 8% of actual size. If the model is 1.2 meters tall, how tall is the building?  
\_\_\_\_\_
5. The purchase price of a camera is \$84. The carrying case is 12% of the purchase price. What is the total cost including the carrying case?  
\_\_\_\_\_
6. The regular price of a CD is \$15.00. What is the new price if there is a 20% discount?  
\_\_\_\_\_
7. A basketball team played 45 games. They won 60% of them. How many games did the team win?  
\_\_\_\_\_
8. On a test with 50 questions, you got 70% of them correct. How many questions did you get correct?  
\_\_\_\_\_

# Summer Work

## Welcome to 8th Grade Science!

This summer you have summer work to prepare you for 8th grade Science, but don't worry...this is **thinking** homework, not *writing* homework!

This is your last year to represent St. Joseph School at the Connecticut Science and Engineering Fair, so I would like you to do a little preparation. As you enjoy yourself over the break, start thinking of some science topics that interest you that you could turn into an experiment. Here are some guidelines:

- Choose something you enjoy and can understand or something that you wonder about.
- It is okay to look for ideas online, but it's better to come up with your own idea.
- Your project must be an experiment. That is, you have to have a question, make a hypothesis and test your hypothesis by changing only one variable and gathering data that will support a conclusion.
- You can also do an engineering project. That would involve choosing a problem to solve, creating, testing and modifying a design that solves the problem.
- If you wish to choose these following topics: humans, vertebrate animals (animals with backbones, such as fish, mammals, birds), bacteria, mold, and anything that involves dangerous chemicals or procedures, you may, BUT they require special advance approval from the CSEF. Be prepared to do some extra paperwork to get your idea approved. In some cases, you may even have to have a qualified scientist and/or laboratory to do submit an experiment from one of those categories.
- Have some backup ideas in case you can't use your idea.

You should also decide if you want to work on your own or with a partner. If you choose to work with a partner he or she must be in your grade. Try to pick someone who works well with you and has the same level of commitment as you.

If you have questions, you can email me at any time: [jreilly@sjsdanbury.org](mailto:jreilly@sjsdanbury.org).

Have a happy summer!

Mrs. Reilly