The Caloosa Middle School Science Fair will be held in the Media Center on December 8/9th. There will be samples of EVERYTHING on the SharePoint site. You do not need to spend much money on your project, use materials that you have at home! You may not do the same experiment as the example on the website or something done in the classroom.

- Only the top 10 projects will move on to the school wide science fair.
- *Late projects will not be considered for the school science fair*

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<tr>
<th>Step</th>
<th>Due Date</th>
<th>Need to do</th>
<th>Parent’s Initials</th>
<th>Teacher’s Initials</th>
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</table>
| 1    | 9/22     | Choose a title/topic for project  
Make sure it is in the form of a question! |                  |                    |
| 2    | 9/22     | Statement of Purpose  
You must say: “The purpose of my project is to.” |                  |                    |
| 3    | 9/22     | Start research researching information about your project. |                  | ******** |
| 4    | 9/29     | Formulate the Hypothesis. Remember to use an IF..(I do this)  
Then ...(this will happen) because.... statement. |                  |                    |
| 5    | 10/1 HW  | Identify the variables: Independent variable is the thing that you change (you should only have one). Dependent variable is the thing that changes because of what you did (you should only have one). Controlled variables are things that you keep the same; you should have as many as needed.  
(You may find uncontrolled variables when you do your experiment.) |                  |                    |
| 6    | 10/3 HW  | List of materials and equipment (everything you need for your project) |                  |                    |
| 7    | 10/3 HW  | Procedures step-by step directions on how to carry out the experiment. (easy to follow and reproducible) |                  |                    |
| 8    | 10/14 HW | Research paper; Bibliography and references: Must follow examples. Do these as you go along; do not wait until the last minute and then try to find the book again. Once you get information from a book, magazine, website, etc. document it then. |                  | ******** |
| 9    | 10/22 HW | Determine results / Analysis of Data Chart, graph, pictures etc. |                  |                    |
| 10   | 10/24 HW | Draw your conclusion: Make sure your conclusion includes everything it needs. (see sample on website) |                  |                    |
| 11   | 10/24 HW | Acknowledgments (Whom you would like to thank and why) |                  |                    |
| 12   | 10/29 HW | Write an abstract (see sample on website) this is a one page paper that summarizes your entire experiment |                  | ******** |
| 13   | 11/3-11/11 | Put it all together: You must follow all of the instructions and have all necessary information for the Backboard and Folder. |                  |                    |
| 14   | 11/14    | Turn in project. (Backboard, Folder or Presentation Cover or bound booklet) |                  | ******** |

Do NOT start your project until steps 1-7 are approved.
SCIENCE FAIR HELP:

If you need help with any part of your science fair project I will be available:

1. Monday and Friday mornings from 8:30-9:30 by appointment. You must tell me in advance so I can sign your planner.
2. You can email me at AmyKM@leeschools.net
3. You can go to the SharePoint Website: click here and see examples under documents; in the science fair folder.
   - Directions are provided to Navigate to my Science Fair Folder
   - I suggest to print a sample portfolio to help you along the way (located under “course documents” on my SharePoint site (it’s titled: Sample packet Step by Step).

SUGGESTIONS FOR TOPICS:

Your independent variable is the thing YOU change and you must have **4 different variables** in this category to change.

- Does temperature affect how quickly a sugar cube will dissolve? (Must have 4 different temperature liquids)
- Does the type of cup affect how quickly the ice would melt? (Must have 4 different types of cups)
- Can you affect (improve?) the germination rate of seeds by pre-rinsing them in a chemical before planting them? (4)
- What things can you do to improve the efficiency or effectiveness of your clothes dryer or water heater or any device?
- What methods of preventing soil erosion work best? (4 sources)
- What is the best thickness of insulation for preventing heat loss? (4 sources)
- When comparing different brands of batteries, is the battery that lasts the longest at a high temperature the same brand that lasts the longest at a cold temperature. (4 brands)
- What temperatures can help crystal growth? (4 controlled temps.)
- Which pesticide is most effective against cockroaches? ants? (4 pesticides)
- Which laundry detergents are best for getting our a specific type of stain? (4 detergents)
- What fabric is best for easy removal of Ketchup stains? (4 fabrics)
- At what angle can you launch a rocket that travels the furthest? (4 angles)
- How close can certain crops be planted together without the plants experiencing crowding? (4 distances)
- Does storage temperature affect popcorn popping? (4 temperatures)
- Does the starting temperature of water affect how long it takes to freeze? (4 staring temperatures)
- Does mass affect how far an object can be thrown? (Must have 4 objects)
- Which solution will clean a penny the fastest? (Must have 4 solutions)
- Which solution will rust a nail the fastest? (Must have 4 solutions)
- Does color affect how quickly a crayon will melt? (Must have 4 different color crayons)
- Does the type of solution affect how quickly a Smartie will dissolve? (Must have 4 different solutions)

**YOU MUST DO 3 TRIALS OF YOUR EXPERIMENT! THAT MEANS YOU MUST DO YOUR PROJECT THREE TIMES TO GET ACCURATE RESULTS.**

You cannot do projects that involve the following: humans, bacteria, animals, or mold.

- There are MANY websites out there for science project ideas; just start looking around!
- These are simply suggestions; you **do not** need to pick one of these.
- Pick something that interests you.
- My website has a lot of links that will take you right to other websites with GREAT IDEAS.
- I also have 5 folders available to check out that have over 350 ideas to get you excited.
SCIENCE FAIR HELP ON MY WEBSITE (SHAREPOINT)

1. These directions will help you navigate the SharePoint site:

   Once you have clicked on McCarthy’s page the above will show up on your screen.

   Once on my site, click the course documents tab on the left hand side of the page.
   The page above will show up: click the Science Fair folder.

   Once you have clicked the Science Fair folder the above page will show up.
   View all the documents to help you along the way.

I strongly suggest printing from home the documents titled: "Sample Step by Step portfolio" & "Science Fair workbook rewrite"
This must be turned in by the end of the day Oct. 8th

**Hypothesis:**
IF I______________________________________________________________
Then______________________________________________________________
Because__________________________________________________________

**Purpose:**
The purpose of my project is to:

**Materials:**

**Procedure Steps:**
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.