student's grades -
five different children (one named ben), took five different subjects (one was science), and received 5 different grades (one was awarded a b+). from the clues below can you determine which student received which grade in which subject?

clues -
the student who received the lowest grade (in home ec.) is not a male.
the highest grade was not given in either science or geography.
mary received either an a+ or an a in math.
rachel received a higher grade than ashley, but a lower grade than paul.
the student who was in the geography class scored lower than the student in the english class, who scored lower than the one in the math class.
the male student who who took the science class received a higher grade than the one in the english class(who was not ben). ben received a grade that was exactly one grade higher than rachel.

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STUDENT'S GRADES -

Ashley - C / Home Economics.
Ben - A / Science.
Paul - B+ / English.
Mary - A+ / Math.
Rachel - B / Geography.

step-by-step:

• This first clue "The student who received the lowest grade (in HOME EC.) is not a male."

This clue results in the following solution : Row Home - C and corresponding eliminations
in Row Home - A+, A, B+, and B , while further eliminations can be made in
in Column C - Math, English, Science, and Geography.
Locate Column Home - Ben, and Paul .

(These two eliminations are made from the last part of the clue ( "... is not a male. " )).

• This next clue "The highest grade was not given in either Science or Geography."

Which leads to two simple eliminations : Locate Column A+ - Science , and Geography .

• The next clue is "Mary received either an A+ or an A in Math."

Begin with recording the solution Mary - Math then proceed with the following eliminations :
Row Mary - B+, B, C , English, Science, Geography and Home EC.
Then for Column Math - Ashley, Ben, Paul , and Rachel. Finally, for Row Math - B+, and B.

• The next clue states : "Rachel received a higher grade than Ashley, but a lower grade than Paul."

This of course means Rachel did not get the C, and Ashley did not get the highest grade( A+ ).
therefore make the eliminations **Rachel - C** and **Ashley - A+**.

Now from the second part of the clue ( **"... a lower grade than Paul. "** ), means that **Rachel** is also eliminated from the highest grade ( **A+** ), remove ( **Rachel - A+** ), and since **Paul** had to have scored higher than **BOTH** Rachel & Ashley, we can in turn, eliminate from Row **Paul - B, C**.

- The next clue is : "**The student who was in the Geography class scored lower than the student in the English class, who scored lower than the one in the Math class.**"

Again we begin with some logical deductions: ( If the one in the Geography class scored lower than the one in English ), this means we can eliminate Geography - **A+** and also since **"... the one in the English class scored lower than the one in the Math class. "**, we can then also eliminate Geography - **A**, as well as **English - A +** , which now reveals that : the highest grade was received by the one in the Math class ( allowing us to fill the solution **Math - A+** ) and eliminate **Math - A**, (which also by logical deduction, yields the solution) :

**Mary - A+** , ( since we know **Mary** was the one who took the **Math** course ), from which these eliminations follow in Column **A+ - Ben, Paul, **, and in Row **Mary - A**.

- The next clue is : "**The male student who who took the Science class received a higher grade than the one in the English class( who was not Ben ).**"

Begin with the obvious elimination, ( since none of the girls could have taken the Science class ), we eliminate from Column **Science - Ashley, and Rachel.**

The second part of this clue tells us that the two boys took either **the Science or English** classes,

( But be aware the last part also tells us : **"... the one in the English class( who was not Ben )."** ). Thus our solution must be (for the boys) : **Ben - Science** and **Paul - English**,

( From which we can make further eliminations ):
Before we can end this clue we can make another logical deduction:

since we know now that Paul (in Science) received a higher grade than Ben (in English), (and checking the availability of the grades for these boys), Ben could only have who received the A, and Paul, the B+.

( Fill-in these two solutions: **Ben - A** and **Paul - B+** ),

from which we can then make our eliminations:

in **Column A** - Ashley, Rachel, English and Column **B+** - Ashley, Rachel, Science, and Geography, and from **Column B** - English, Science, which leads to the solution: **Geography - B**.

• We have our optional last clue: "**Ben received a grade that was exactly one grade higher than Rachel.**"

Since we already know Ben received the A, then Rachel received the B, and the solution for Ashley is:

**Ashley - C** and **Ashley - Home EC.**, leaving the solution: **Rachel - Geography.**

• Congratulations! Puzzle solved. To summarize:
  Ashley - C / Home Economics.
  Ben - A / Science.
  Paul - B+ / English.
  Mary - A+ / Math.
  Rachel - B / Geography.

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