

The grade that you earn in your Eisenhower science classes is weighted. Some of the tasks that you complete are more important than others. In Biology, your grade is calculated according to the following weights:

- **Assessments** (individual, phone-free, tests) = 60%
- **Labs & Activities:** (investigation requiring forethought, technique and written analysis) = 20%
- **Homework Completion & Comprehension:** (individual practice activities)= 20%

1. At the end of the first unit, a Biology student is seeking to better understand her grade. She has earned a 10 out of 15 on her first small assessment and a 37 out of 50 on her first test. Her first lab scored a 21 out of 25. She has received full credit for all homework and homework 'quizzes'.

Assessments

Points earned: _____ = _____ % which by the UCS
Out of Possible: 65 scale is a grade of: _____

Labs & Activities

Points earned: _____ = _____ % which by the UCS
Out of Possible: 25 scale is a grade of: _____

Homework Completion & Comprehension

Percentage earned = _____ % which by the UCS
scale is a grade of: _____

Weight in Biology
60
20
20

Total Score Earned in Biology:

(sum the three parts of score and round to the nearest whole number)

Current Grade in Biology:

Situation #1

The next unit begins with a 30-point lab/project. Although she only lost four points on her first lab, this student is determined to increase her lab scores. If she works hard and earns a perfect score on this lab, how will this affect her overall grade?

Points earned: _____ = _____ % which by the UCS
Out of Possible: 55 scale is a grade of: _____

X 20 =

Use this new total in place of the above 'Labs & Activities' subtotal



The student's new Biology score is _____, which equates to a grade of _____.

Situation #2 (disregard Situation 1)

The next unit begins with six homework assignments (30 points). If this student works hard and continues to earn perfect scores, how will this affect her overall grade?

$$\text{Percentage earned} = \quad \% \text{ which by the UCS} \quad \times \quad 20 \quad =$$

scale is a grade of: _____



Use this new total in place of the previous
'Homework Completion & Comprehension' subtotal

The student's new Biology score is _____, which equates to a grade of _____.

Situation #3 (disregard Situations 1 & 2)

Remembering this 'Weighted-Grading' assignment completed the first days of class, the student decides homework isn't really worth her time (*an attitude that will undoubtedly result in lower test and homework quiz scores*). She skips the next six assignments and her homework completion & comprehension score drops to a 75%. How will this affect her overall grade?

$$\text{Percentage earned} = \quad \% \text{ which by the UCS} \quad \times \quad 20 \quad =$$

scale is a grade of: _____



Use this new total in place of the previous
'Homework Completion & Comprehension' subtotal

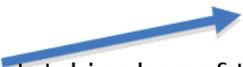
The student's new Biology score is _____, which equates to a grade of _____.

Situation #4 (disregard Situations 1, 2 & 3)

Remembering this 'Weighted-Grading' assignment completed the first days of class, the student decides that her assessments need improvement. Instead of studying for a few minutes the night before, she puts in a half hour of study for the three night preceding her next small assessment. This results in her scoring 19 out of 20. How will this affect her overall grade?

$$\begin{array}{l} \text{Points earned:} \quad \underline{\quad} = \\ \text{Out of Possible:} \quad 85 \end{array} \quad \% \text{ which by the UCS} \quad \times \quad 60 \quad =$$

scale is a grade of: _____



Use this new total in place of the
previous 'Assessments' subtotal

The student's new Biology score is _____, which equates to a grade of _____.

2. At the end of the first unit, a Biology student is seeking to better understand his grade. Although he has skipped half of his homework (earning 50% for that category) he has miraculously earned a 13 out of 15 on his first small assessment and a 45 out of 50 on his first unit test. He failed to complete and turn in the unit's only lab, thereby earning 0 out of 25 points.

Assessments

Points earned: _____ = % which by the UCS
Out of Possible: _____ scale is a grade of: _____

Labs & Activities

Points earned: _____ = % which by the UCS
Out of Possible: _____ scale is a grade of: _____

Homework Completion & Comprehension

Percentage earned = % which by the UCS
scale is a grade of: _____

<u>Weight in Biology</u>
60
20
20

Total Score Earned in Biology:
(sum the three parts of score)

Current Grade in Biology:

Situation #1

The next unit begins with a 30-point lab/project. This student does a marginal job, submitting a lab that earns 21 points.

The student's new Biology score is _____, which equates to a grade of _____.

Situation #2 (disregard Situation 1)

The next unit begins with 30 points of homework and homework quizzes. This student decides to change his study habits and completes all of his assignments. This brings his homework completion and comprehension scores up to a 75 %.

The student's new Biology score is _____, which equates to a grade of _____.

Situation #3 (disregard Situations 1 & 2)

Thinking Biology is easy and that all he needs to do is pass tests, this student continues his poor study habits. Unfortunately, this catches up to him on the next small assessment when he earns only 11 out of 20 points.

The student's new Biology score is _____, which equates to a grade of _____.

3. A student that averages 'D's (65%) on assessments, but earns strong lab scores (90%) and stellar homework (95%), earns what grade in Biology? Show your work.
4. A student that averages 'B's (85%) on assessments, but produces poor labs (60%) has incomplete homework with little comprehension (50%), earns what grade in Biology? Show your work.
5. What is the highest grade a student that averages 'C's (75%) on tests can earn in Biology? Show your work.
6. With a week left in quarter, a student suddenly becomes concerned about his Biology grade. He has done well with labs (averaging 80%), completes all of his homework, and even does well on the open-note homework quizzes... but he underperforms on assessments.

The student considers doing an 'Extra Credit' assignment issued by the teacher. The assignment represents approximately an hour and a half of work. Successful completion of the assignment will earn him an extra ten homework points. Currently, he has earned 130 of the 150 homework points, so the extra credit could increase his total to 140.

The student also considers that the last time he spent any considerable amount of time studying for a test, he scored almost ten points higher. He will soon take his last 50-point test of the quarter. Currently he has earned 105 of the 150 assessment points. Based on his past performance, he predicts he will earn 35 out of 50 on this last test, bringing his total for assessments to 140 out of 200.

If it will increase his test score by 10 points, should this student spend the hour and a half studying for his test or doing the 10-point extra credit assignment? Justify your answer by showing which will most impact his overall Biology grade.

(To be completed in class with Mr. Logsdon the day this is due)

The moral of the weighted grade story is ...

