Scene 1

- Mr. and Mrs. Love just returned from Panama City, where they spent two glorious weeks frolicking in the sun and sand. They are now discussing having a baby.
- Mr. Love: I would like to have a son to play golf with.
- Mrs. Love: I want a girl to shop with.
- Mr. Love: It’s more likely that we’ll have a boy first because everybody knows that male genes are dominant.
- Mrs. Love: Where did you get that information from?
- Mr. Love: I graduated from UGA and I took Biology for Jocks, and I know what I’m talking about.
- Mrs. Love: (laughs) That can’t be true, not all babies have their Dad’s phenotype.
- Mr. Love: ummmmm… I wonder how babies inherit their looks…..
Where the case goes

• Scenes 2 and 3: Mrs. Love is pregnant and the Love’s visit the doctor for genetic testing
• Scene 4: something is wrong with the Love’s baby, leading them to genetic counseling
Assessments

Learning issues

Laboratory Activities

Presentation

Writing assignment

Traditional Tests/Quizzes

QCC’s

• QCC’s 9-11 include everything that addresses genetics, mitosis, meiosis
• QCC’s 23-24 include human biology (pregnancy)
• Scene 4 addresses specific genetic disorders, and discusses ethical issues

Genetics Case

Scene 1

QCC’s: 9.1, 9.2, 9.3, 9.4, 10.1, 10.2, 11.1, 11.2

Scene 2/3

QCC’s: 23.1, 23.2, 24.1, 24.2

Scene 4

QCC’s: 11.2

All address QCC 2.1 - Research
### Case Timing: Fall 2004

<table>
<thead>
<tr>
<th>CASE</th>
<th>WHEN</th>
<th>DURATION</th>
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</thead>
<tbody>
<tr>
<td>What happened to my car?</td>
<td>Start of classes</td>
<td>2 days</td>
</tr>
<tr>
<td>What’s for dinner?</td>
<td>End Aug-Early Sept.</td>
<td>~ 9 days</td>
</tr>
<tr>
<td>What’s wrong with my baby?</td>
<td>End Sept.-mid Oct.</td>
<td>~ 15 days</td>
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</tbody>
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### Case Objectives: Fall 2004

<table>
<thead>
<tr>
<th>CASE</th>
<th>GOALS</th>
</tr>
</thead>
<tbody>
<tr>
<td>What happened to my car?</td>
<td>Introduce PBL; scientific method, data presentation and analysis; graphing</td>
</tr>
<tr>
<td>What’s for dinner?</td>
<td>Address plant anatomy and biochemistry through controversy – GMO’s</td>
</tr>
<tr>
<td>What’s wrong with my baby?</td>
<td>Mendelian inheritance, current technologies and ethical issues</td>
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</tbody>
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