



## Pacific Bell MESA Day Academies Contest Rules For 1999-2000

<b>Event:</b>	<b>Gastrointestinal (GI) Physiology</b>
<b>Level:</b>	Middle/Junior High School
<b>Type Of Contest:</b>	Individual Or Team (Maximum of 2 Members/Team)
<b>Number Of Teams:</b>	3 per Center
<b>Sponsor:</b>	Pam Isom- Volunteer & Dianne Smith Coordinator, MESA Statewide

**Overview:** To construct a model of the gastrointestinal (GI) tract. Also, to be able to answer questions from an assigned list using reading material provided.

**Materials:** Materials designated to build the model should be supplied by the students. The reading used to answer the questions will be provided by the Statewide Office.

**Rules:** The project may be undertaken either alone or in a group of 2 people. Although, in the event of a tie, the team with the least amount of people (individuals) will be the winner.

**The contest will be judged in 2 parts.**

### **Part I: Model of the GI tract:**

- One point will be given for each criteria met:
  1. **Maximum** dimensions of the model (including the stand) should be no larger than: **2'X3'X3' high**.
  2. Model must be freestanding at the time of judging.
  3. The model must have a diagram of the GI tract attached to the **front** of the model. The diagram must contain all **labeled** parts as outlined on the score sheet. This diagram must be **hand-drawn** and not simply a photocopy out of a book.
- **Any models larger than the dimensions stated above will be disqualified.**
- The model will be scored on the following:
  1. Use of designated materials for 1999-2000.  
**For 1999-2000 the designated material will be plumbing materials. (e.g. PVC, copper pipes, flush valves, plumbers putty, "O" ring, drainage pipe connectors, valves, "tee" joints, "el" joints, etc.)**

2. Completeness of model – are all required parts correctly placed and **labeled**?
  3. Does the model appear to be anatomically realistic, in terms of overall size, relative size of the various parts and location of the various parts?
  4. Are the different parts variable in terms of colors, textures, length and dimension.
  5. Is the use of materials used to depict the different organs, tissues and/or glands creative, yet realistic?
  6. Creativity: Does the model and various organs display characteristics of originality and creativity in terms of overall composition?
- A maximum of 5 extra points will be awarded for parts of the GI tract included on the model other than the required parts listed on the score sheet. These extra parts must aid in GI function and be **correctly placed and labeled** to receive the extra points.
  - The competitors will be asked questions pertaining to GI physiology, which they will randomly pick out of a jar, on the day of the competition.

**Part II: Understanding GI physiology:**

- Competitors will receive a list of questions that will be asked at the competition. A chapter on GI physiology will be provided for the competitors to study.
- The competitors will need to explain the function of three parts of the GI tract, which they will randomly pick out of a jar on the day of the competition.