

# Brazoria County Science Fair



## Models of Systems Helpful Hints

# *PreK - 3rd Grade Models*

Students in PreK - 3rd grade can submit an entry for a model of a system.

When participating in this category, students will research a system and construct a model of the system.



The constructed model need not be displayed with the project board, but the display board should include pictures of the constructed model.



## ***Here are questions to respond to and include in your research and display:***

1. What system, or systems, did you observe during your investigation? Name the system and give the purpose of the system.
2. What are the parts of each system? Describe the job of each part of the system. What is their purpose to the system?
3. Could some parts be removed without changing how the system functions? What job does this part do for the system and how does the removal of this part not affect the function/purpose of the system?
4. What parts could not be removed without changing how the system functions? What happens if parts are removed from the system?
5. What would happen if different parts were added to the system?
6. What can you learn from constructing models of system within our science world?

7. How are models similar to or different from the natural world?

## *Criteria for Judging Models of Systems*

### **Project Notebook**

- Clear statement of the purpose of the system.
- Selection of the science concept to model is appropriate to age level.
- Student notebook shows that planning and thought went into the development of the model. (Drawings, descriptions, research.)

### **Project Design**

- Creativity and originality shown in the selection of materials used to build the model.
- Knowledge and Understanding of the science concept is evident in the constructed model.
- Project design is neat and well constructed.
- Conservation of materials to build the model is evident.

### **Project Presentation**

- Others would learn from the model representation.
- There is clarity of the display, including the organization and presentation of information.
- Presentation shows a development of knowledge, understanding and safety throughout the process.