



Royal Rangers

Merit Requirements: **Red-Bordered Merit**

MODELS AND DESIGN

1. Define the word model as it relates to cars, trains, planes, or buildings.
2. Give an example describing the history of model making in ancient times.
3. Explain why professionals use models in their work.
4. Cite some examples of how models are used in non-business ways.
5. Choose ONE of the following: Build a model from a kit appropriate for your skill level.
 - a. Build a model from scratch.
 - b. Build a Pinewood Derby car.
Note: You cannot use the same model or Pinewood car used to complete a requirement of the Hobby Merit.
6. As you build your model, keep notes on the following things and then demonstrate them.
Proper planning method
 - a. Appropriate choice of materials
 - b. Proper and safe use of tools
 - c. Appropriate choice and proper use of adhesives, paints, and finishes
 - d. Proper cleanup and storage of all materials and tools
7. After completing Requirement 5, do ONE of the following:
 - a. Create a method for displaying your model.
 - b. Run the Pinewood Derby car in a race.