Name Period Date

The Six Kingdoms Cube

Background: Scientists classify living creatures in order to better study and understand them. Currently, scientists organize living organisms into six kingdoms: Fungi, Plantae, Animalia, Protista, Bacteria (eubacteria), and Archae (Archaebacteria). The organisms are grouped according to cell type (prokaryote or eukaryote); ability to create their own food (autotroph or heterotroph), and the number of cells in their body (single or multicellular).

Purpose: Your goal is to make a paper cube, each face of which provides information about each of the six kingdoms, one kingdom per face.

Procedure:

I. For information about the six kingdoms, review back to your Six Kingdom table in you science notebook as well as pages 532-535 in your textbook.

II. Cut out your cube from the model template provided. Fold along the dotted lines to see how the cube will be put together at the end. Plan which kingdom you will put on each face of the cube. DO NOT GLUE the cube together yet.

III. Each face of the cube should have the following information:

1. Title (name of kingdom, eg. Animalia)
2. Are organisms in this kingdom single-celled or multi-celled?
3. Can they make their own food or not (autotroph or heterotroph)?
4. Do they have a nucleus or free-floating DNA (eukaryote or prokaryote)?
5. Name an example organism and draw it (Eg. dog)
6. Give one interesting fact about the kingdom

IV. When you have completed all the sides of the cube, glue the sides together. Once the glue is dry you may use tape to reinforce the sides if needed. Write you name on the cube!

*Grading guidelines:*

*Total of 25 points*

*Make sure you do your effort work! (neat, colorful, well-organized)*

*Make sure all the information for all six cube faces is included!*

*Make sure that the information for each kingdom is correct!*