

Nature of Science.	A	M	E
<b>Understanding About Science (1):</b> Your logbook shows evidence to support your ideas and ways you have worked together like scientists work together.	writes about	discussed	evaluated
<b>Investigating In Science (2):</b> There is evidence in your logbook of questions asked in your thinking group. Also evidence of the fair test that you carried out with explanations about the design and development of your frog.	measurement	controls	explained
<b>Communicating in science. (3):</b> Your logbook shows a range of scientific symbols, conventions and vocabulary including KEY words.	graphs	compared	explained
<b>Participating and Contributing (4):</b> Your logbook shows that you have explored various aspects of your design and made decisions about possible actions to improve the elastic potential energy of your frog.	which aspect?	Why?	reasons

**Key Competencies** – students take responsibility for their own and others learning in science, shows curiosity and enthusiasm, displays initiative, perseveres. - Relating to others

**Key words** used in log: Potential                      Kinetic                      Elastic                      Energy

**Period 1** Step one:

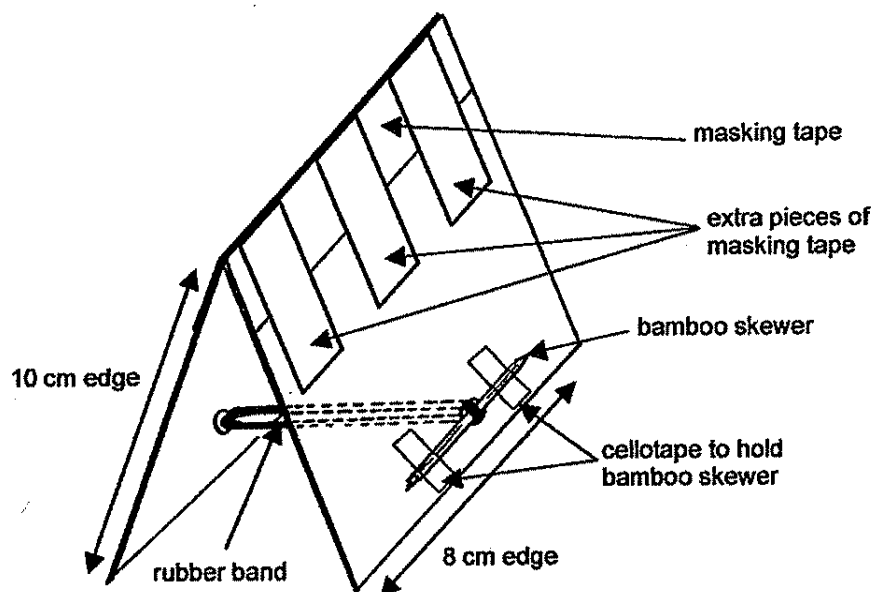
In groups of two or three collect the materials and manufacture a copy of the frog shown on the front bench. When all the groups have completed building their frogs move to your thinking groups and compare the heights that the frogs jump. Record your results.  
Each thinking group then compares their best frog(s) with the other thinking groups.

**Period 2**

In the thinking groups discuss the design of the frogs and how they can be improved. Only ONE improvement can be made to each frog – this is a fair test. The thinking group discusses which variable will be changed in each of the frogs.

Record which aspect of each frog will be developed. Students go back to step 1 and this time improve their one aspect.

## Jumping Frog Instructions



### **To make your FROG jump**

Turn the cardboard inside out so that the rubber band is now on the outside. Place your FROG on a smooth, hard surface, e.g., a bench. Squeeze together, then hold, then let go!

