

Springtide Sports

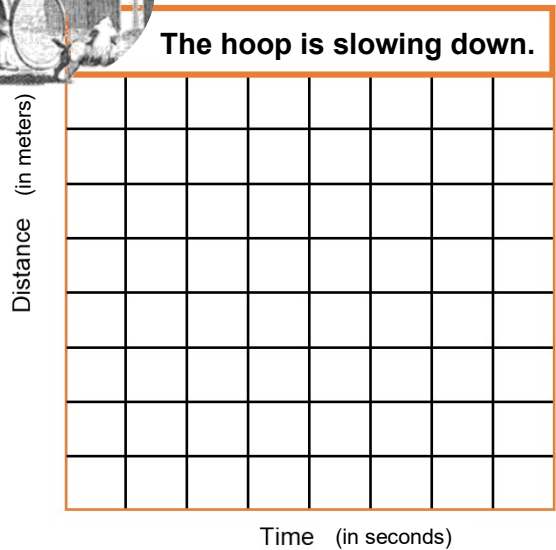
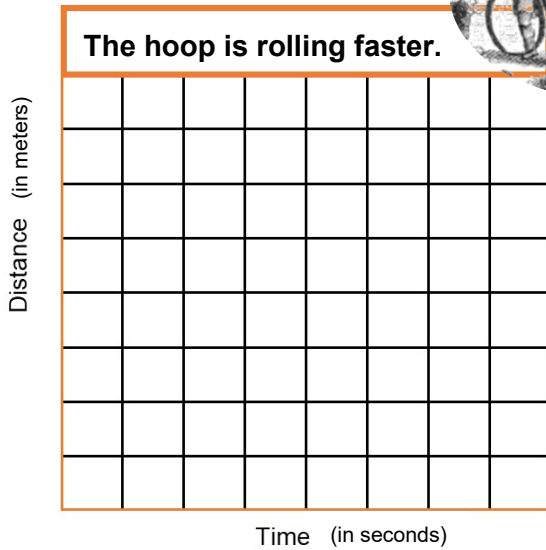
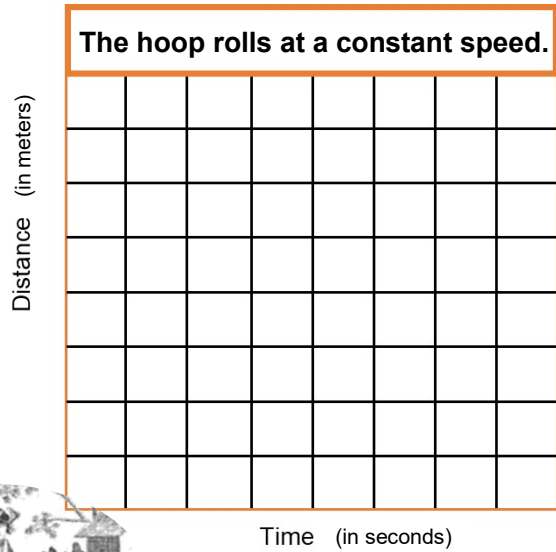
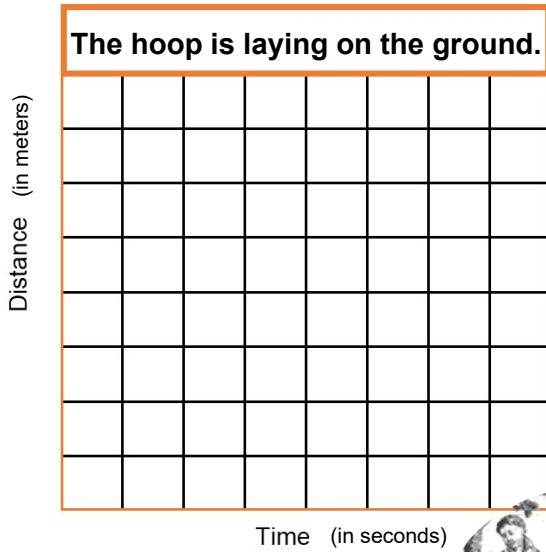
Grade 7 Science



Name: _____

Date: _____

Activity 1: Read the following scenarios and think about what the motion of Pauline's hoop would be like in each case. Using estimated distances and times (that make sense), graph each scenario.





Springtide Sports

Activity 2: Various forces are at work in the hoop and stick game. Answer the following questions about these forces.

1. What force is responsible for starting the hoop's motion? _____

2. What forces are responsible for slowing the hoop down? _____ and _____

3. If the hoop were being rolled on a polished wooden floor instead of on grass, what force would be less likely to affect the speed of the hoop? _____

4. If the hoop had ten times the mass, how would that affect the change in motion? _____

Activity 3: Review the chart below showing the number of rotations a hoop makes in a given period of time. Complete the chart, following the pattern established. Use the completed chart to graph distance verses time on the following page.

Time (in seconds)	Number of Rotations
1	2
2	4
3	6
4	8
5	10
6	12
7	
8	
9	
10	



Springtide Sports

Remember to label the axes and to give your graph a title.

