Sports Turf Ltd

Keighley, West Yorkshire

Dear Scientists,

We are a firm that lays grass turf for sports grounds around the country. We have been asked to grow some grass for a new community sports ground. The ground will be used for playing football, rounders, tennis, hockey and cricket. We need to grow a type of grass that will not wear away easily from all the different sports. As users and spectators will bring drinks into the ground, we also want to select a grass that will not be damaged by any spillage of these drinks.

Finally, we need to know how much watering the grass will need to keep it healthy. We have to get permission to take water from the nearby river to water the sports ground. The more water we take, the more expensive it is, so we want to apply for the right amount of water. Can you investigate the amount of water the grass needs, and how much is soaked up by different types of ground? The usual three sorts of soil we find are sandy, fine soil and heavy clay types.

Therefore, in summary, we would like your help to find out:

- whether grasses are damaged by spilled drinks
- the wear on different grasses
- how much watering the grass will need, depending on the soil type.

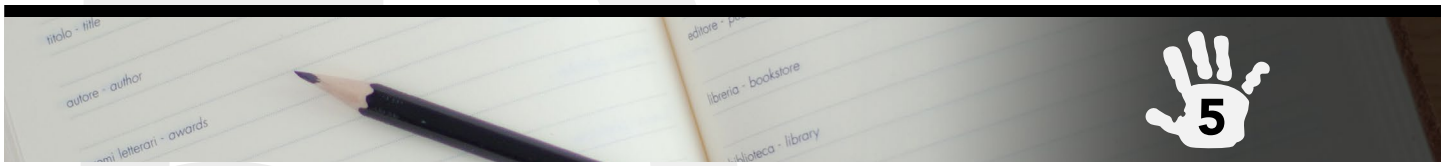
Any information you can give us will be useful.

Yours faithfully,

Ruth Petera

Research Director

Activity 5: Scientist's investigation planner



We will have: seed trays, grass seed, compost, liquids, containers, window sill

The question we will investigate is _____

_____

_____

The liquids we could investigate are _____

_____

_____

We predict that _____

_____

_____

_____

This is because _____

_____

_____

We will record our ideas by _____

_____

_____

Activity 6: Which liquid? Record Sheet

We measured the longest and shortest blades of grass, and found the average length for our control experiment, and for our different liquid.

We also recorded the colour and shape (thick, thin, bent over) of the grass.

	Control tray Liquid: water				Test Tray Liquid: _____			
Day	Longest	Shortest	Average	Appearance	Longest	Shortest	Average	Appearance
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								

Activity 7: Final results sheet

Sample	Final Result	Conclusion
Control		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10