WILF: I can plan an investigation to find out if plants need warmth and light to grow well.

What are you trying to find out?

I am investigating:

<table>
<thead>
<tr>
<th>I am using cress for this experiment because:</th>
<th>On the window sill</th>
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<tbody>
<tr>
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<td>In the cupboard</td>
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<td>In the fridge</td>
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Is the experiment a fair test? 

Why?

Why do plants need sunlight to grow?
WILF: I can plan an investigation to find out how much water plants need to grow well.

**Water world!**

How much water do you think a plant needs to grow well?

I predict that:

Because:

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<th>This is what I need:</th>
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Draw what you think will happen to the three plants.

For each plant I shall keep these things the same:
1. 
2. 
3. 
4.

I will change only this:

<table>
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<th>This is what I will do.</th>
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The role of the stem

Look closely at the celery and draw a detailed picture of the inside of the stem.

Label the drawing carefully using scientific vocabulary.

I predict that

because

Before the experiment

After the experiment

How did we make our experiment a fair test?

What is the role of the stem in plant growth?

How is water transported to the leaves of the celery plant?
WILF: I can draw and label one plant that will grow well and one plant that will grow badly.

What does my plant need to grow well?

In the two boxes below draw and label one plant that will grow well and one plant that will grow badly, thinking about the role of the stem, roots and leaves.

A plant that will grow well

A plant that will grow badly

1. What will the roots look like in a plant that is growing well?

2. What will the stem look like in a plant that is growing badly?

3. Do plants grow better with lots of leaves or only a few leaves? Why?
WILF: I can plan an investigation to find out if plants need leaves to grow well.

The leaf thief thinks that plants can manage without their leaves. So he steals them!

How many leaves do you think it is safe to take off a plant?

I predict that:

Because:

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<th>This is what I will do:</th>
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For each plant I shall keep these things the same:
1. 
2. 
3. 
4. 

I will change only this:

If I am right, this is what will happen:

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