

Reasoning and Problem Solving

Step 1: Before and After

National Curriculum Objectives:

Mathematics Year 1: (1M4b) [Sequence events in chronological order using language \[for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening\]](#)

Differentiation:

Questions 1, 4 and 7 (Problem Solving)

Developing Use first and then to describe a sequence of 2 drawings, one obvious change to describe using understanding of 'before' and 'after' using the language, before, after, first, then, morning, afternoon and night.

Expected Use first, then and finally to describe a sequence of 3 drawings, obvious changes to describe using understanding of 'before' and 'after' using the language, before, after, first, then, next, after, finally, morning, afternoon, evening and night.

Greater Depth Use first, then, next and finally to describe a sequence of 4 drawings, some subtle changes to describe using understanding of before and after using the language, before, after, first, then, next, after, finally, morning, afternoon, evening and night. Some open ended questions requiring children to draw on own experiences.

Questions 2, 5 and 8 (Problem Solving)

Developing Complete sentences using a given word bank to sequence. Sentence represents a simple concept. Differentiation as above.

Expected Complete sentences using a given word bank to sequence, finding all possible sentences. Sentence represents a more complex concept. Differentiation as above.

Greater Depth Complete sentences using a given word bank to sequence, finding all possible sentences. Sentence represents a more complex concept. Differentiation as above.

Questions 3, 6 and 9 (Reasoning)

Developing Decide whether a statement is correct and explain why when sequencing from a given picture. Differentiation as above.

Expected Decide whether a statement is correct and explain why when sequencing from a given picture. Could involve simple concept. Differentiation as above.

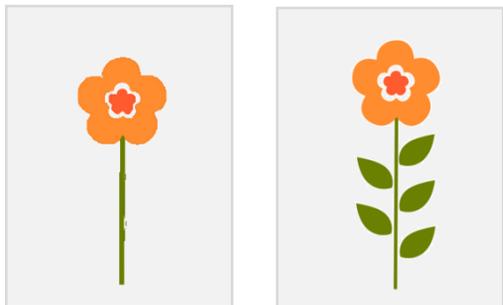
Greater Depth Decide whether a statement is correct and explain why when sequencing from a given picture. Image will require child to internalise sequencing. Differentiation as above.

More [Year 1 Time](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Before and After

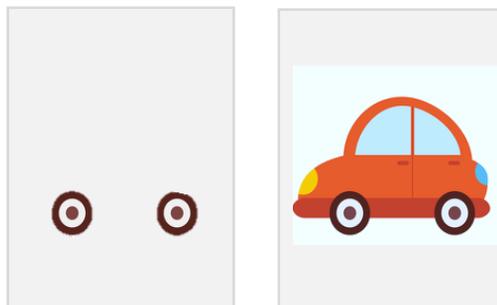
1a. James is drawing a picture. Use the words 'first and then' to describe his drawing.



PS

Before and After

1b. Carole is drawing a picture. Use the words 'first and then' to describe her drawing.



PS

2a. Complete the sentence using one of the words below.

before

after

I put my cup in the sink

_____ I drink my milk.



PS

2b. Complete the sentence using one of the words below.

after

before

I sharpen my pencil

_____ it snaps.



PS

3a. Look at the picture.



The red car finishes before
the blue car.

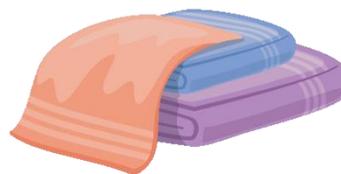


Is Jeff correct?
Explain how you know.



R

3b. Look at the picture.



The blue towel was put
down before the purple one.



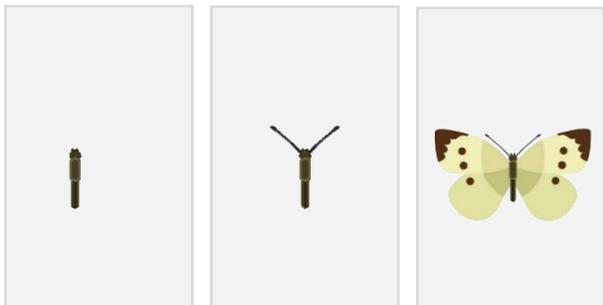
Is Stevie correct?
Explain how you know.



R

Before and After

4a. Suzie is drawing a picture. Use the words 'first, then and finally' to describe her drawing.



PS

Before and After

4b. Riley is drawing a picture. Use the words 'first, then and finally' to describe his drawing.



PS

5a. Complete the sentence using one of the words below. Write all possible answers.

before

first

then

I go to bed _____ I go to sleep.



PS

5b. Complete the sentence using one of the words below. Write all possible answers.

before

first

then

I'll have my 6th birthday _____
I'll have my 7th birthday.



PS

6a. Look at the picture.



The smallest case was on the shelf before the purple case.

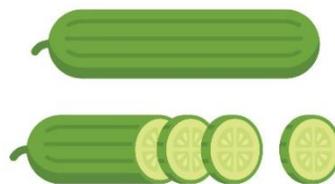


Is Effie correct?
Explain how you know.



R

6b. Look at the picture.



The cucumber is shorter after it has been cut.



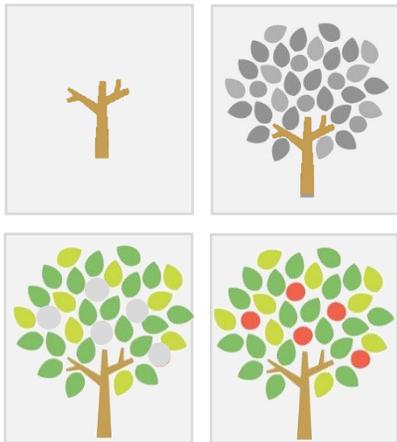
Is Ty correct?
Explain how you know.



R

Before and After

7a. Jamal is drawing a picture. Use the words 'first, then, next and finally' to describe his drawing.



PS

Before and After

7b. Ariana is drawing a picture. Use the words 'first, then, next and finally' to describe her drawing.



PS

8a. Complete the sentence using two of the words below. Write all possible answers.

before

after

then

_____ I eat my breakfast I
brush my teeth _____ I get
ready for school.



PS

8b. Complete the sentence using two of the words below. Write all possible answers.

before

after

then

I brush my teeth _____ I get
undressed _____ I go to bed.



PS

9a. Look at the picture.



The middle cake was put on
the pile before the bottom
cake and after the top
cake.



Is Riley correct?
Explain how you know.



R

9b. Look at the picture.



The ribbon was put on the
scroll after it was rolled, but
before the bottle was
sealed.



Is Amaya correct?
Explain how you know.



R

Reasoning and Problem Solving Before and After

Developing

- 1a. First he draws the flower and stalk, then he draws the leaves.
- 2a. I put my cup in the sink after I drink my milk.
- 3a. Jeff is correct, the red car is in front of the blue car and has already reached the finish line.

Expected

- 4a. First she draws the body, then the antennae, finally she draws the wings.
- 5a. I go to bed before I go to sleep; I go to bed then I go to sleep.
- 6a. Effie is incorrect, the purple case is underneath the smallest case so would be on the shelf before the smallest case.

Greater Depth

- 7a. First he draws the trunk, then he draws the leaves, next he colours in the leaves and finally he colours the apples.
- 8a. Before I eat my breakfast I brush my teeth then I get ready for school; After I at my breakfast I brush my teeth then I get ready for school.
- 9a. Riley is incorrect, the middle cake has to be put on after the bottom cake, but before the top cake.

Reasoning and Problem Solving Before and After

Developing

- 1b. First she draws the wheels, then she draws the car.
- 2b. I sharpen my pencil after it snaps.
- 3b. Stevie is incorrect, the blue towel is on top of the purple towel so it was folded after the purple towel not before.

Expected

- 4b. First he draws the wheels, then he draws the truck, and finally he colours it in.
- 5b. I'll have my 6th birthday before I'll have my 7th birthday; I'll have my 6th birthday then I'll have my 7th birthday.
- 6b. Ty is correct, after the cucumber is sliced it will be shorter than it was before being cut.

Greater Depth

- 7b. First he draws the dinosaur head, then the tail and spines, next he draws the rest of the dinosaur and finally he colours it in.
- 8b. I brush my teeth before I get undressed then I go to bed; I brush my teeth after I get undressed then I go to bed.
- 9b. Amaya is correct, the paper has to be rolled to tie the ribbon and needs to be put in the bottle before it is sealed.