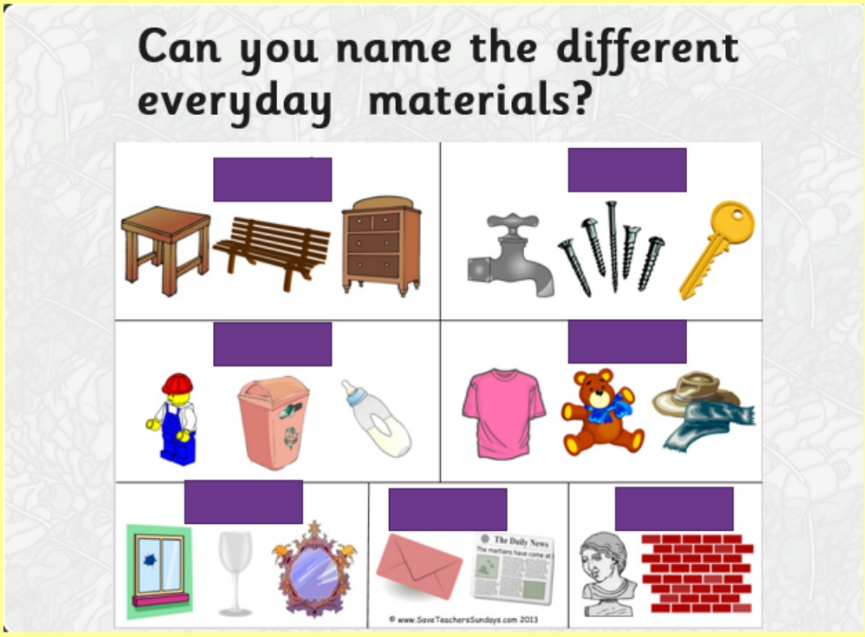
Wednesday 3rd March

WALT: Investigate to find the bounciest ball.



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Josh, Tom and Sam can't agree which of ball is the bounciest?
Josh thinks his big basketball is.
Tom thinks it is his tennis ball and Sam thinks it his tiny bouncy ball.

Can you help them find out which type of ball is the bounciest?

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How could we carry out this experiment?

Do you have a collection of up to 5 different ball?

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Being a Scientist

All scientists do things in the same way. They:

- decide on an **aim** (what they want to find out)
- make a **prediction** (what they think will be the right answer)
- decide how to test their prediction (a **method**)
- **test** their predictions (by investigating)
- record what happens (their **results**)
- come to a **conclusion** (see what they found out)

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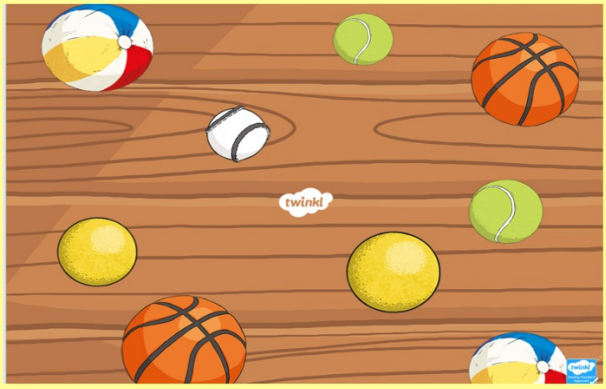
Deciding on an aim

To find the bounciest ball.



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Making a prediction

Making a **prediction** means saying what we think will happen.

We should always try to give a reason for our **predictions**, so we use the word 'because'.

I **predict** that _____

because _____

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Method

The **method** means how we plan to test our predictions.
We have to try and plan to do a **fair test**, so that we find out the correct answer.

To make it **fair test** we must only change one thing and keep the rest the same.
We need to decide what we will change and what we will keep the same.

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Change

the type of ball

tennis ball

beach ball

sponge ball

bouncy ball

basket ball

Keep the same

The height the ball is dropped
The flooring
measure

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You will need:-

- Up to 5 different balls
- Tape measure/ ruler
- Pencil
- Paper
- Masking tape
- Wall or door
- Investigation write up

What you will do:-

1. Tape a paper on to a wall or door.
2. Take each ball in turn, face the wall/door and hold the ball at waist height.
3. Drop the ball.
4. Mark on the paper how high the ball bounced.
5. Use a tape measure or ruler to measure in cm how high the ball bounce and record in your results table.
6. Repeat steps 2 to 5 with each ball.

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Results

Our **results** mean what we found out when we did our investigating.

Scientists often record their **results** in a table.

We will record our **results** in a table and a block graph.

Conclusion

Our **conclusion** means what we found out when we did our investigation.

Today, our **conclusion** will help us know which type of ball is the bounciest.

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After we have bounced each ball we will record the height it bounced in cm in the results table.

Results table

Type of ball					
Height bounced in cm					

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Use the results table to show the results in a block chart

Results Block chart

Type of ball

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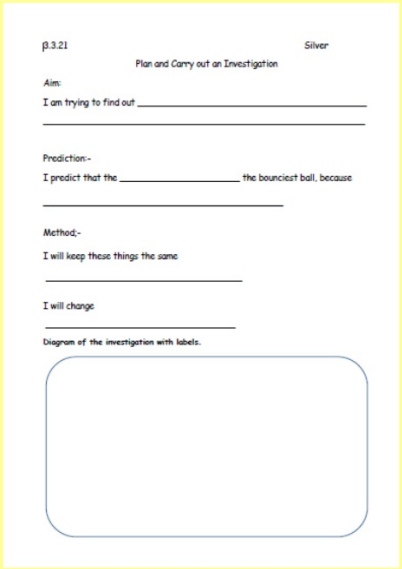


β.3.21 Silver

Plan and Carry out an Investigation

Aim:

I am trying to find out _____

_____

Prediction:-

I predict that the _____ the bounciest ball, because

_____

Method;-

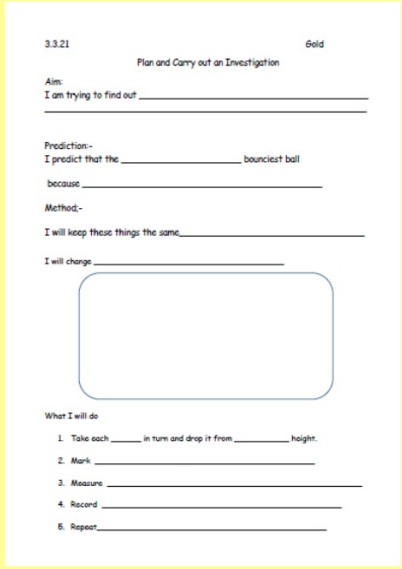
I will keep these things the same

_____

I will change

_____

Diagram of the investigation with labels.



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Plan and Carry out an Investigation

Aim:

I am trying to find out _____

_____

Prediction:-

I predict that the _____ bounciest ball

because _____

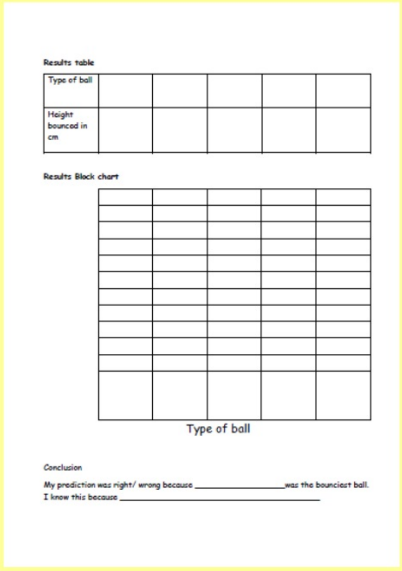
Method;-

I will keep these things the same_____

I will change _____

What I will do

1. Take each _____ in turn and drop it from _____ height.
2. Mark _____
3. Measure _____
4. Record _____
5. Repeat_____



Results table

Type of ball					
Height bounced in cm					

Results Block chart

Type of ball

Conclusion

My prediction was right/ wrong because _____was the bounciest ball.

I know this because _____