What I know

What I think I know

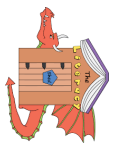
What I would like to know

GR Resource 1a

Emotion Tracking

Time	Emotion and clues	Why
1m 22s	The girl seems to be confused and disappointed. Her eyebrows are pulled closer and she looks down as if she is looking for an answer.	She really wants the robot to work. It lights up for a moment but then the light goes out.
1m 26s		
1m 38s		
1m 47s		
2m 04s		
2m 09s		
2m 14s		
2m 36s		
2m 41s		
2m 49s		
3m 39s		

Emotion Graph

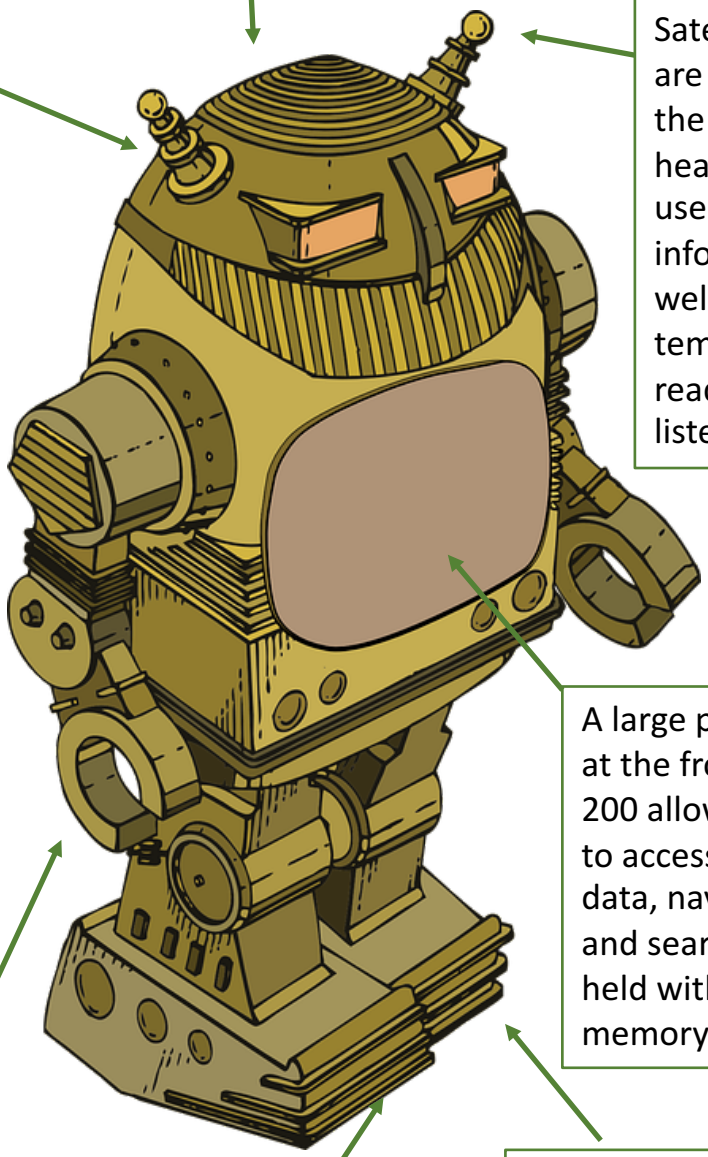


Dear Diary,
My day has been a rollercoaster of emotions so far. Finally, after months of drawings and measurements, the robot I have been working on is finished- well, not quite. It looks fantastic and I'm bursting with pride. There have been quite a few adjustments along the way (the size is much bigger than I had first calculated) but I always expected to have to alter my plans. Behind him, there is a large wheel which rotates and helps to bring power to him, though, so far, I seem to be having trouble getting enough power to make him move. It is fairly disappointing to come so far and yet not be at the finish line yet. I've spent much of the morning trying to tinker with the mechanisms inside his torso, but I now feel exhausted, having spent hours trying to fix it without success. If only I could figure out how to get him to move? So far today I have seen his eyes light up and this gives me hope. There are a few hours left in the day and so I shall stay in the workshop and endeavour to breathe life into the nuts and bolts in front of me.

The controller (brain) is located in the head area of the robot and can be programmed to carry out a vast number of commands. There are mounted sensors below the satellite receptors to tell the robot about its surroundings. These allow the robot to determine sizes and shapes along with heat and changes in conditions.

Light sensitive 'eyes' can be used to magnify objects and visualise on the screen. They can also determine depth so that the robot can 'step' over things.

Satellite receptors are situated on the top of the head and can be used for positional information as well as temperature readings and as a listening device.

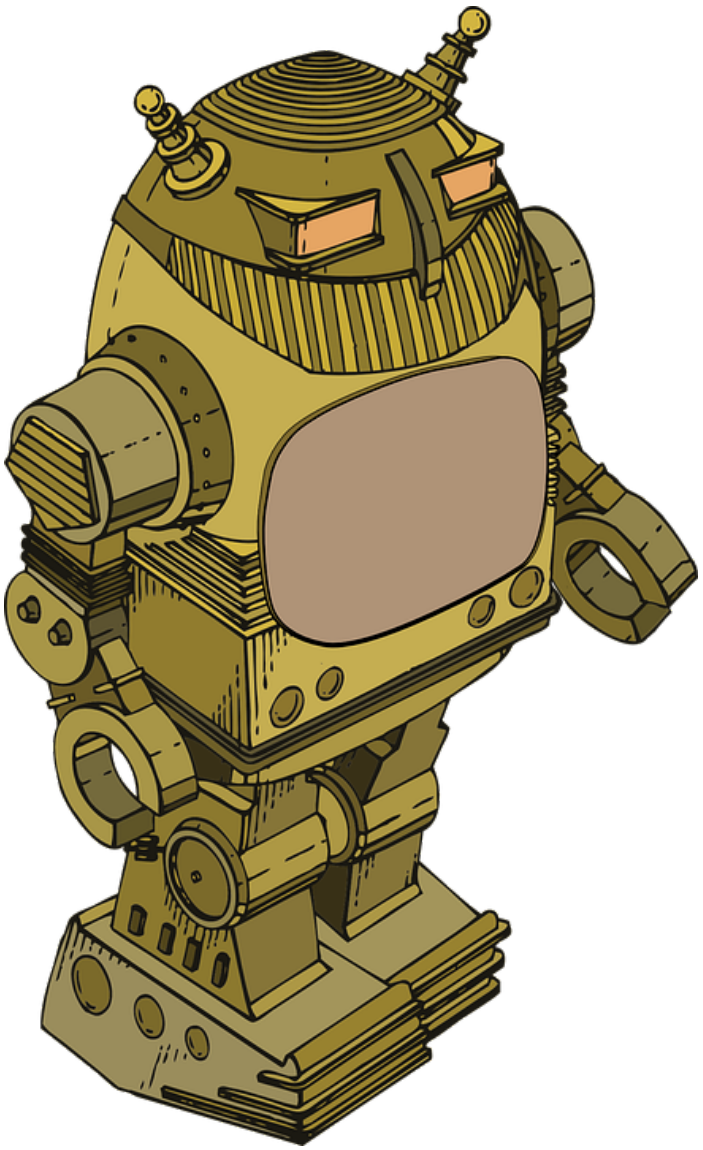


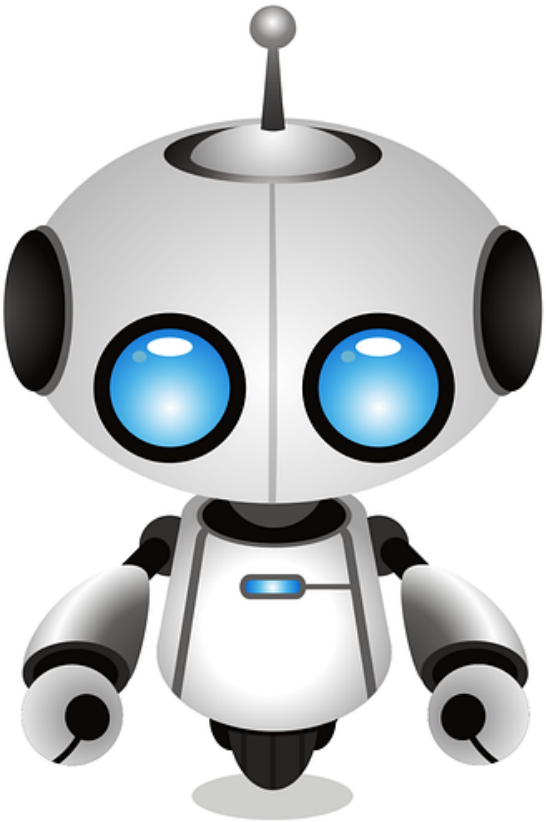
Two wrench-like arm adaptors can be used to hold, carry and utilise a wide range of implements and devices. They can also be used for attaching tools if necessary. The DXL-200 uses pressure-related readings to understand how much grip to use without damaging or breaking items.

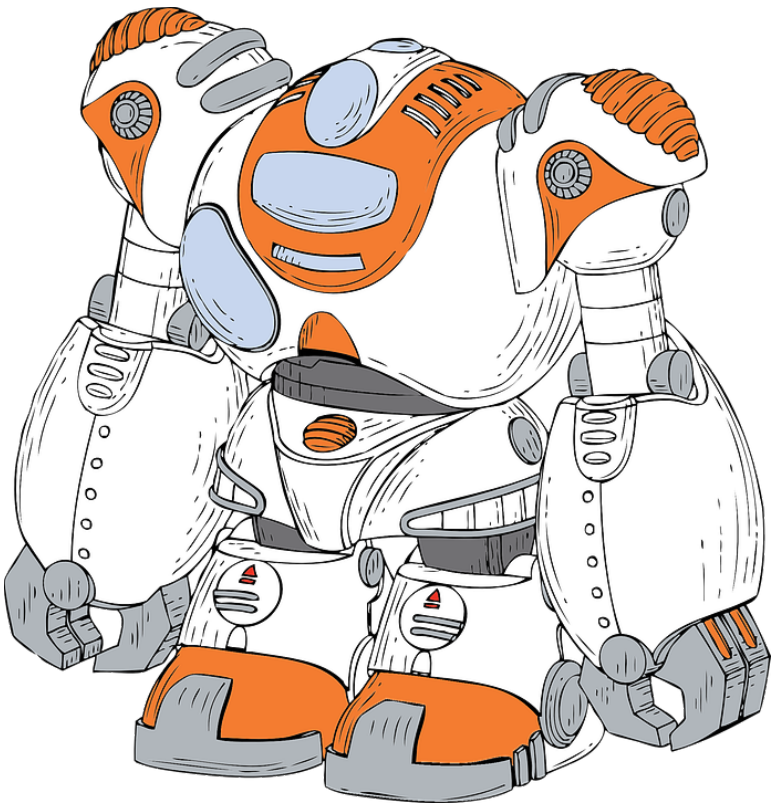
A large plasma panel at the front of the DXL-200 allows the owner to access mapping data, navigational data and searchable data held within its memory banks.

A series of sensitive grippers, gears and pistons help the robot to move across most surfaces.

The DXL-200 is mainly constructed of Inconel (an incredibly strong metal) and has over 1000 rivets to maintain its strength.





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nosoyhector.com

How to make a model bull

These attractive, brightly coloured bulls are easy to make; you can even use items that might be in your recycling bin. The design is also very simple to adapt so that you can make a wide range of animals. Why not try making a recycled zoo?

You will need...

A red yoghurt pot
4 wooden lollipop sticks
Coloured foam sheets (2 colours)
A piece of black card
2 wobbly eyes
A small cardboard box (a stock cube box is a good size)
Scissors
Glue
Glitter pens

Method...

1. Firstly, ensure you have checked that you have the correct equipment.
2. Next, take the small cardboard box and glue the ends shut.
3. Then, glue the four lollipop sticks (like legs) onto each corner, carefully.
4. After that, cut the first foam sheet so that it fits over the box and hangs slightly below the edge. You may need an adult to help you make sure it is accurate. Glue it into position.
5. Next, select the second colour of foam and create a smaller blanket for your bull. Before you glue it into position, decorate it with your glitter pens.
6. Then, attach the yoghurt pot head into position on one end of the box.
7. Now cut two small triangular ears, and two circular nostrils, and glue onto the pot.
8. Finally, glue on the two wobbly eyes, and your bull is complete.

Try creating a pig by using a pink yoghurt pot and pink body, or why not make a lion by using a yellow yoghurt put and creating a foam mane. The possibilities are endless!

Features of instructional writing

- **Title** which shows what the text is about- use 'How to..' to show that you are writing instructions
- A clear **list of equipment** or ingredients- don't forget to include the number of items needed
- **Simple steps** for each action
- **Imperative verbs** telling the reader what to do
- **Bullet points or numbers** for each step
- **Adverbs** for how actions should be done
- **Chronological order** and adverbs to show time (First, then, next, finally)
- **Technical vocabulary** related to the task
- Safety warnings where necessary
- **Diagrams** or illustrations with **labels** (where necessary)
- **Impersonal tone**

Casting her gaze once more over the instructions on how to build the robot, the girl felt determined to make it work. She didn't need instructions! Screwing them up tightly, she threw them, angrily, across the room at the giant robot and returned to her place behind the control booth. She turned all of the pipes, knobs and cranks up to maximum and grabbed hold of the starting lever hard. Forcefully, she yanked it forward. Nothing. The robot stood still. He stared blankly across the room, and her heart sank. Her eyes narrowed as she pushed the lever even harder.

Above the robot, pipes began to pump quickly, and the girl breathed a sigh of relief and a smile crept across her anxious face. Momentarily, the robot's eyes flickered yellow and it began to shake with life like the rumblings of a rusty tractor starting, but the temperature gage flew to boiling point and suddenly the room filled with steam and noise.

Using all of her strength, the frightened girl tried to pull the lever back, but it was no use. By now, all of the machines were popping, whistling, blowing and exploding. With one final yank, the girl flew to the cold, hard ground with a thud. Her eyes shut and her lay body still.

SURPRISES Editing Method- Year 3/4

Say in head

Rehearse in head to listen to what immediately stands out, which sentences are you happy with? Unhappy with? Mark anything you think needs to change.

Under breath - mumble

In a muttered voice, begin to FEEL how the piece fits together- are your sentences varied enough? Are your sentence lengths varied enough?

Read aloud

Have you accidentally repeated anything? Are your tenses correct? Does it need anything adding in?

Punctuation power

Look at your use of punctuation- is it correct? Is it varied enough? Have you used commas after fronted adverbials?

Read the openers

Is there enough variety in your openers? Have you used fronted adverbials?

Improve worrisome words

Improve vocabulary by checking your word choices particularly verbs, adjectives and adverbs.

Say in head or aloud

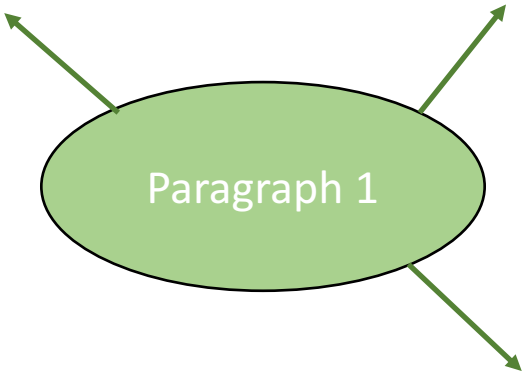
Read it through to listen to how it is now sounding? Have you done enough? Has it improved? What more needs to be done? Could you re-order some sentences to improve the overall effect?

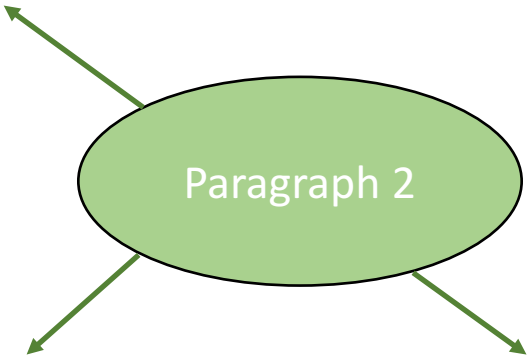
Extending sentences

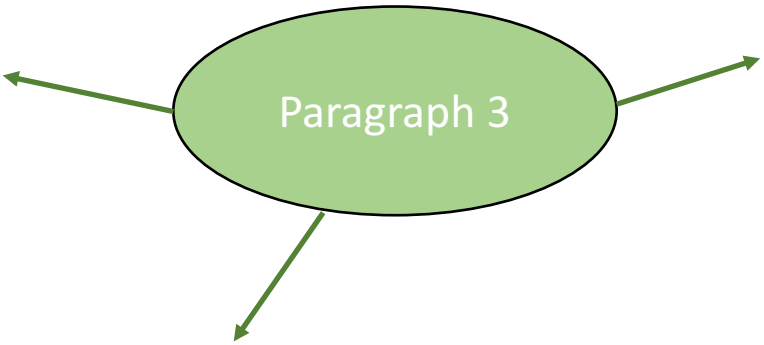
Look at your sentence choices. Have you expanded your noun phrases? Can you add information into your sentence?

Share with a friend

Together can you improve your work in any other ways? Does it feel finished?







As I opened my eyes slowly, I realised I was hovering above the ground and lying on something cold, hard and metallic.
My head hurt. I glanced slowly upwards and saw, to my astonishment, the bright yellow eyes of my robot. He was alive! He was looking at me. It had worked! Then, in an instant, the eyes grew dim and the life was gone. No! I had no time for tears as, above the robot's back, a large steel joist was groaning and creaking. The whole ceiling looked ready to collapse!

I looked around and saw that my only escape route was to the back of the room where a small door was open. I knew it led to a short corridor and then the exit. In desperation, I heaved myself out from the grip of the motionless robot just as large metal bar crashed down from the ceiling above me. SMASH! It hit the control panel and sent fizzes of electricity across the dashboard and sparks into the air. Suddenly the power surged again and and before I knew what was happening, the robot lunged forwards. His eyes glowed bright yellow and he nodded slowly to me.

"Come on!" I yelled to him, as more of the ceiling crashed down to the floor around me. With one mighty metal arm, he heaved the joist from his back and swept me up in his other hand. Without a moment to lose, we were running- yes the robot was actually running- towards the door and as we reached it we saw the last of the ceiling crash down to the floor in a pile of rubble and dust. He pounded down the rapidly crumbling corridor until I could taste the fresh air in my mouth and we burst out of the building and into the open. We were safe. Then we stood, panting heavily, looking at the wreckage of the building and smiling.