

Explanations and Procedural Recounts: Comparison Chart

Developed by Ruslana Westerlund

Explanations	Procedural Recounts
Explain why or how things are or how things work. Each type of explanation has its own purpose (e.g., Causal Explanation: explain how something works including what causes what to happen, e.g., <i>how electricity works</i>). The biggest difference between these two is that while	Tell what was done or how a problem was solved (e.g., how we made an electric circuit/how we solved a problem). Procedural recounts are frequent in math and science. explanations are phenomenon-centered (how does
electricity work? Why do we have hiccups?), procedural recounts are activity-centered (what we did in an experiment and in what order).	
Explanations ¹	Procedural Recounts
Electricity requires a path to flow through. For electricity to work, it needs an energy source such as a battery. It requires a conductor, a special wire that carries energy from one end of the source which connects back to the source at the other end. It creates a closed circuit for electricity to flow through. That's how electricity works.	I will tell you how I built an electric circuit. First I collected the materials: a copper wire, an LED light, tape, and two small button batteries. Then I put the two button batteries together (facing the same direction so that + on one battery is touching the – on the other). I taped two pieces of wire onto the batteries, one on the top and one on the bottom. That's how I made my electric circuit.
Organization (Discourse Level)	
 Identifying statement/statement of phenomenon Explanation sequence (with a causal element) Grades PK-2 labeled diagrams, Grades 3+ written explanations with labeled diagrams (Brisk, 2023) Summary statement (optional) Explanations can be written as stand-alone texts or part of a macro genre (e.g., an information report about volcanoes might also include an explanation about how a volcano erupts). 	 Aim (purpose of procedure: I will show we solved a math problem/built an electric circuit) Sequence of steps (no causal element) *precise order, cannot skip events In math procedural recounts, the order of operations is very tight and steps cannot be moved around Evaluation of reasoning in math, otherwise this final "conclusion" is not required.
Sentence Level	
 Types of Sentences: Simple sentences with embedded clauses to add definitions Complex sentences with, <i>when, if, or after</i> clauses to express what caused what to happen (e.g., <i>When the electricity flows, this happens</i>) Compound sentences with two independent clauses 	 Types of Sentences: Simple sentences to list steps (<i>First, we immersed it into the cold Then</i>) Compound sentences with two independent clauses

¹ Explanations can be: Sequential, Causal, Factorial, Consequential, Systems, Cyclical, Conditional (Brisk, 2023)



Explanations	Procedural Recounts
Tense: Timeless Present to talk about how things always/usually are (e.g., frogs <i>hatch</i> , electricity <i>conducts</i> , clouds <i>form</i>)	Tense: Past tense (put, added, connected, multiplied, etc)
 Voice: Passive Voice (e.g., <i>is transmitted, is conducted, is carried, the wire <u>was connected</u>)</i> Types of verbs: Mostly action verbs (technical words indicating processes: <i>conducts, transmits, carries, evaporates</i>) Relational verbs <i>to be/have</i> (batteries <u>are</u> a type of stored energy) Action verbs used to describe what happened Verbs that give information about Some existential verbs (indicate a state <i>there is/are/was/were</i>) 	 Voice: Active Voice focusing on the doer of the action (We <u>connected</u> the battery to the copper wire). Types of verbs: Mostly action verbs (what did participants do like loaded, pointed) to talk about what we did in the science experiment Some relational verbs <i>is/are</i> but in past tense (typically) Thinking verbs and verb groups that tell what we did in the math problem following the order of operations (e.g., added, multiplied, jumped to find, solved, subtracted)
Word/Phrase Level	
 Noun groups: Describe the noun accurately with technical pre-modifiers specific to the content area (not just adjectives: including info about what kind, how many, what type (e.g., <i>positive side of the battery, the newly hatched tadpole.</i>) 	 Noun groups: Describe the noun accurately with technical pre-modifiers specific to the content area (not just adjectives: including info about what kind, what size, what temperature, how many, etc. e.g., the numerals in the denominator, graduated cylinder, 500 ml beaker))
 Adverbials: Place, manner, and time (prepositional phrases used as an adverb to modify a verb) on the right negative side, around the copper wire 	 Adverbials: Place, manner, and time (prepositional phrases used as an adverb to modify a verb) on the right negative side, around the copper wire
 Cohesion: No personal pronouns, because explanations are phenomenon-based Pronouns "it, they" used to refer to a noun that has already been named The article <i>the</i> when used to refer to something that has already been named Connecting words that signal the CAUSAL relationship. Textual reference (This, those, these) referring back to whole paragraph or previous sentences (e.g., <i>This is called echolocation.</i>) Nominalization to refer back to the whole process (e.g., <i>the water goes up to the sky = the evaporation</i>) 	 Cohesion: Personal pronouns to name who did the experiment or solved a problem Pronouns "it, they" used to refer to a noun that has already been named The article <i>the</i> when used to refer to something that has already been named Sequence words signaling steps in the recount Textual reference (This, those, these) to refer back to what was accomplished (e.g., <u>This</u> is how we built an electric circuit/this is how I solved the problem)