Diagram

Description automatically generated

<https://ethereum.org/en/developers/docs/blocks/>

* <https://ethereum.org/en/developers/docs/gas/>
* <https://ethereum.org/en/developers/docs/transactions/>
* <https://ethereum.org/en/developers/docs/consensus-mechanisms/pow/mining/>

**WHAT'S IN A BLOCK?**

**timestamp** – the time when the block was mined.

**blockNumber** – the length of the blockchain in blocks.

**baseFeePerGas** - the minimum fee per gas required for a transaction to be included in the block.

**difficulty** – the effort required to mine the block.

**mixHash** – a unique identifier for that block.

**parentHash** – the unique identifier for the block that came before (this is how blocks are linked in a chain).

**transactions** – the transactions included in the block.

**stateRoot** – the entire state of the system: account balances, contract storage, contract code and account nonces are inside.

**nonce** – a hash that, when combined with the mixHash, proves that the block has gone through proof-of-work.