## YoungstarsWiki.org

## Morse code



Find all the important information about Morse code as a transmission technology here.


## Morse rules

## Division of tasks

Transmitting station and receiving station has:

- Recorder: dictates / writes down characters
- Transmitter: sends characters
- Observer: observes the signs


## Notes on transmission

- Always in the same rhythm
- A dash should be 5 times longer than a dot
- Observe the distance between the individual characters
- Agree whether to morse with or without acknowledgement sign ( . = understood / - = not understood)
- Keep the message as short and clear as possible
- Select the means of transmission according to the distance and conditions


## Means of transmission

| Day <br> Night | Means of transmission Condition | Transmission range |  |
| :--- | :--- | :--- | :--- |
| T | Morse flags | clear view | $1-2 \mathrm{~km}$ |
| T | Arms of people | clear visibility | $500-700 \mathrm{~m}$ |
| T | Heliograph (mirror) | Sun | 20 km |
| T | Smoke | Calm | 1 km |
| T+N | Whistle | Calm | 500 m |
| T+N | Morse code | -- | Cable length |
| T+N | Radio | same channel 10 km |  |
| N | Searchlight | clear view | 30 km |
| N | Candle lamp | clear view | 4 km |
| N | Flashlight | clear view | 2 km |

## Alternative transmission methods



## Painting a Morse code picture

Hide Morse code messages in the picture. For example, in the mountains, hill shapes, flowers, garden fence, etc.


## Fever curve

Dots are small peaks, dashes are large ones. The page is changed when words are exchanged.

## Program idea <br> Connection with card reading

## YoungstarsWiki.org

- Two groups receive a card with a dot on it. They have to move to the dot and send a message at a predetermined time. One group sends, the other receives. They then meet again at a meeting point.
- If necessary, plan a training block for Morse code beforehand.


## Post run

- Post run with various posts where the Morse code technique is taught.
- Prepare different means of transmission to try out


## Sources

Overview image:
https://th.bing.com/th/id/R.3c297cd8ca1c853ea525abf6d027c128?rik=WMPwEejYcWqmxw\&riu=http://ww other pictures and text: Jungschar EGW Herzogenbuchsee

