

ASCII to Unicode

ASCII is limited to 128 different characters

This creates problems:

- la contraseña
- høretelefoner
- mémoire
- übertragen
- клавиатура
- 键盘
- £

ASCII to Unicode

Unicode is the replacement for ASCII.

It allows a lot more characters (including emojis...):

- different alphabets
- special characters (£ ÷ ¿ © etc...)

The first 128 characters are the same (0-127)

ASCII to Unicode

As of 2020, around 143,500 characters.

BUT:

- this takes up more memory - uses 16 bits per character
- this is a problem in embedded systems with very little memory (washing machines etc...)
- transfer speed is slower - messages take longer to be sent. This is a problem with slow connections or when messages need to be sent very quickly
- can't be used on very old technology - not everything is updated regularly

ASCII to Unicode

The first 128 characters are the same (0-127)

Q The ASCII value for the character x is the decimal number 120

Complete the table below with the missing ASCII and Unicode values

Character	ASCII value	Unicode value
w		
x	120	
y		
z		

ASCII to Unicode

Yes, this really is this simple

The question is testing the **knowledge** that the first 128 codes are the same in both ASCII and Unicode

Character	ASCII value	Unicode value
w	119	119
x	120	120
y	121	121
z	122	122