



WELCOME TO 2050!

Print, cut, and use these challenge and AI capability cards for
Lesson 3: What Could Technology Do?

CHALLENGE CARD

**CLEANER
CITIES**

CHALLENGE CARD

**MENTAL
HEALTH
AND
WELLBEING**

CHALLENGE CARD

**CLEANER
ENERGY AND
CLIMATE
ACTION**

CHALLENGE CARD

**ACCESSIBLE
EDUCATION
FOR ALL**

CHALLENGE CARD

**ENDING
LONELINESS**

CHALLENGE CARD

**PROTECTING
WILDLIFE**

CHALLENGE CARD

**FOOD FOR
THE FUTURE**

CHALLENGE CARD

**FAIR AND
EQUAL
COMMUNITIES**

CHALLENGE CARD

**HEALTHY
OCEANS**

CHALLENGE CARD

**SAFER DIGITAL
SPACES**

CHALLENGE CARD

**CREATIVE
COMMUNITIES**

CHALLENGE CARD

**AGE-FRIENDLY
FUTURES**

AI CAPABILITY CARDS

Natural Language Processing (NLP)

AI that can understand, interpret, and produce human language — like talking, writing, or answering questions.

AI CAPABILITY CARDS

Predictive Analytics

AI that uses past data to make smart guesses about what might happen next.

AI CAPABILITY CARDS

Machine Learning

AI systems that improve over time by learning from data and feedback.

AI CAPABILITY CARDS

Generative AI

AI that creates new content — such as images, music, stories, or designs — based on prompts.

AI CAPABILITY CARDS

Computer Vision

AI that can 'see' and make sense of images or videos.

AI CAPABILITY CARDS

Robotics

Robots that can move, lift, build, carry, or perform physical tasks — often guided by AI.

AI CAPABILITY CARDS

Recommendation Systems

AI that suggests things you might like based on your behaviour or preferences.

AI CAPABILITY CARDS

Emotional AI

AI that can detect and respond to emotions using voice, facial cues, or text patterns.