**STUDENT'S NAME:** _____

**LEVEL:** _____

**DATE:** _____

# WORKSHEET 1
# NEW TECHNOLOGIES

## CONVERSATION

**Alice:** Hey, have you heard about the latest advancements in **nanotechnology**? It's amazing how they are using it to create more efficient materials at such a tiny scale.

**Bob:** Yeah, I was just reading about that! It's incredible how **nanotechnology** is transforming medicine too. Imagine using **nanobots** to target diseases at the cellular level.

**Charlie:** Speaking of cutting-edge tech, **artificial intelligence (AI)** is really taking off as well. It's not just in software anymore—AI is being integrated into **robotics** to create smarter, more autonomous machines.

**Alice:** That's true. I'm particularly interested in how **ubiquitous computing** is making everyday life so seamless. Everywhere you go, you're surrounded by computing power that just blends into the environment.

**Bob:** Exactly, and **pervasive computing** is a step further—it's like the technology is just part of everything around us, working quietly in the background. Like those **smart appliances** that adjust the temperature and lighting based on our preferences without us even noticing.

**Charlie:** Don't forget about **biometrics**. The way we interact with devices is changing too, with fingerprints, facial recognition, and even voice patterns being used to unlock phones and secure data.

**Alice:** It's fascinating how all these technologies are converging. The future of tech is going to be so integrated, it's hard to imagine what daily life will look like in just a few years!

Activity 1: Write the words according to the definitions.

1. <u>Nanotechnology</u> - Creating more efficient materials at a tiny scale.

2. _____ - Tiny machines used to target diseases at the cellular level.

3. _____ - Integrated into robotics to create smarter machines.

4. _____ - Devices that adjust settings like temperature and lighting automatically.

5. _____ - Uses fingerprints, facial recognition, or voice patterns for security.

6. _____ - Technology that works quietly in the background.

7. _____ - Machines that are becoming more autonomous with AI integration.

8. _____ - Computing power that blends into the environment, making life seamless.

Activity 2: Read the sentences, decide and write if they are True or False.

1. Nanotechnology is used to create more efficient materials at a tiny scale, not necessarily larger ones. _____

2. Bob specifically mentioned that nanotechnology is transforming medicine. _____

3. Charlie stated that AI is being integrated into robotics, not just limited to software. _____

4.  Alice described ubiquitous computing as computing power that blends into the environment. _____

5.  Bob explained that pervasive computing is technology that works quietly in the background. _____

6.  Smart appliances adjust settings based on preferences without noticeable input. _____

7.  Biometrics include fingerprints, facial recognition, and voice patterns for security. _____

8.  Alice is excited about how integrated technologies will make daily life more seamless. _____

9.  Bob imagined using nanobots to target diseases at the cellular level. _____

10. Charlie mentioned the integration of AI into robotics. _____

**Activity 3: Select the word that has the same meaning as the ones listed.**

**1. Alice**: Hey, have you heard about the latest **advancements** in nanotechnology? It's **amazing** how they are using it to create more **efficient** materials at such a tiny scale.
Options:

*   **advancements**: (a) breakthroughs (b) innovations (c) setbacks

*   **amazing**: (a) ordinary (b) astonishing (c) boring

*   **efficient**: (a) wasteful (b) effective (c) slow

**2. Bob**: Yeah, I was just reading about that! It's **incredible** how nanotechnology is transforming **medicine** too. Imagine using nanobots to target diseases at the **cellular** level.
Options:

*   **incredible**: (a) unbelievable (b) dull (c) trivial

*   **medicine**: (a) law (b) healthcare (c) food

*   **cellular**: (a) atomic (b) tissue (c) organ

**3. Charlie**: Speaking of **cutting-edge** tech, artificial intelligence (AI) is really taking off as well. It's not just in **software** anymore—AI is being integrated into **robotics** to create smarter, more **autonomous** machines.
Options:

*   **cutting-edge**: (a) outdated (b) futuristic (c) basic

*   **software**: (a) applications (b) hardware (c) materials

*   **robotics**: (a) human resources (b) automation (c) biology

*   **autonomous**: (a) dependent (b) self-directed (c) reliant

**4. Alice**: That's true. I'm particularly interested in how **ubiquitous** computing is making everyday life so **seamless**. Everywhere you go, you're surrounded by computing power that just blends into the environment.
Options:

*   **ubiquitous**: (a) rare (b) widespread (c) specialized

*   **seamless**: (a) smooth (b) interrupted (c) chaotic

**5. Bob**: Exactly, and **pervasive** computing is a step further—it's like the technology is just part of everything around us, working **quietly** in the background. Like those smart appliances that adjust the temperature and lighting based on our preferences without us even **noticing**.
Options:

*   **pervasive**: (a) invasive (b) widespread (c) local

*   **quietly**: (a) noisily (b) silently (c) loudly

*   **noticing**: (a) observing (b) ignoring (c) missing

**6. Charlie**: Don't forget about **biometrics**. The way we **interact** with devices is changing too, with fingerprints, facial recognition, and even voice patterns being used to unlock phones and secure **data**.
Options:

- **biometrics**: (a) biology (b) genetics (c) identification

- **interact**: (a) disengage (b) communicate (c) avoid

- **data**: (a) information (b) furniture (c) architecture

**7. Alice**: It's **fascinating** how all these technologies are converging. The future of tech is going to be so **integrated**, it's hard to imagine what daily life will look like in just a few years!
Options:

- **fascinating**: (a) boring (b) captivating (c) dull

- **integrated**: (a) isolated (b) connected (c) fragmented