Name:.....Student ID:..... Date: .....

CHAPTER 6: ROBOTS: HOW THEY WORK AND LEARN TO WORK

Topic: _____ (1)

I. What Rs look like

– Most Rs look like → not _____

↘ _____ (2)

II. Today's topic = Indust Rs

– Rs do wk for humans – _____, rep, dang., or _____ (3)

– Most Rs wk _____ in fact. (4)

e.g.: ♦ put lids on _____ (5)

♦ _____ for shipp'g (6)

– In _____ (7)

+ _____ join parts of car together (8)

+ ≠ Rs → _____ on car's whls (9)

↘ paint car

+ Ts Rs – auto _____ → v. precise (10)

e.g.: ♦ tighten bolts w/ _____ (11)

♦ move _____ exactly (12)

♦ put _____ in car door hr after hr (13)

→ Rs do human wk > _____ & _____ (14)

III. How Rs wk & learn to wk

– Rs need _____ - R's "brain" → direct R's mech. parts (15)

– Rs learn job w/ human's _____ & _____ (16)

+ 1/ per. use handheld comp. → guide R's "_____ & _____" (17)

+ 2/ R store movs in _____ (18)

+ 3/ R use _____ → direct _____ (19)

e.g.: to _____ & move box (20)

1/ R find box

2/ R decide _____ (21)

3/ R decide _____ → lift & move box (22)

4/ R find _____ → put box ↓ (23)

→ R do = job until new job & _____ (24)

IV. Future Rs

– Future Rs: smart, _____ or _____ > today's Rs (25)

+ Today Rs = "_____" – move & not travel around (26)

+ _____ – change beh. (27)

e.g.: Honda's famous ASIMO

- detect _____ (28)
- _____ s.o toward it (29)
- learn danc'g by follow'g _____ (30)

LIVEWORKSHEETS