**Lesson 8 – Robots**

1. **Discuss:**
2. What types of robots do you know?
3. What are the tasks robots can perform better than people?
4. What trait/function would you like to see in future robots?
5. **Shapes**
6. **Draw the following:**

A point

A straight line

A curved line

An angle – acute, obtuse, right

Parallel lines

A vertical line

A horizontal line

A diagonal line

1. **Read this and answer the questions:**

*The letter E has one vertical line and three horizontal lines. It also has four angles.*

*Which of these letters are described below?*

***D, M, C, H, F, L, Z, B.***

1. A letter with 2 horizontal lines and 1 vertical line.
2. A letter with 1 curved line and no straight lines.
3. A letter with 2curved lines and 1 vertical line.
4. A letter with 2 parallel vertical lines, 1 horizontal line and 4 angles.
5. A letter with 2 vertical lines and 2 diagonal lines.
6. **Draw these figures and answer the questions below:**

***a circle – a square – a rectangle – a triangle - a semi-circle***

1. Which figure is curved?
2. Which figures have parallel sides?
3. Which figure has a curved side and a straight side?
4. Which figure always has equal sides?
5. Which figure may have equal sides?
6. Which figure has 3 angles?
7. **Are the statements below true or false?**
8. A cube has 6 surfaces. They are all flat and square.
9. The sides of a cone are tapering.
10. The cross-section of a cone is circular.
11. The cross-section of a cylinder is rectangular.
12. The longitudinal section of a hemisphere is semi-circular.
13. **Complete the sentences:**
14. A ball is shaped like a sphere, it is …………….
15. A test-tube is shaped like a cylinder, it is …………
16. A funnel is shaped like a cone, it is …………..
17. A salt crystal is shaped like a cube, it is ………..
18. **Describing machines and pieces of equipment**

**Read the definitions of the adjectives listed below. What machines do they make you think of?**

### [all-singing, all-dancing](http://www.macmillandictionary.com/thesaurus/british/all-singing-all-dancing%22%20%5Cl%20%22all-singing-all-dancing_3%22%20%5Co%20%22all-singing%2C%20all-dancing)

[an](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=an) [all-singing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=all-singing), [all-dancing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=all-dancing) [system](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=system) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [piece](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=piece) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [is](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=is) [very](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=very) [advanced](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=advanced) [and](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=and) [able](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=able) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [do](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=do) [everything](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=everything) [you](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=you) [want](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=want) [it](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=it) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to)

### [cordless](http://www.macmillandictionary.com/thesaurus/british/cordless%22%20%5Cl%20%22cordless_3%22%20%5Co%20%22cordless)

[a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [cordless](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=cordless) [tool](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=tool) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [piece](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=piece) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [works](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=works) [without](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=without) [being](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=being) [connected](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=connected) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [the](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=the) [electricity](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=electricity) [supply](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=supply)

### [cranky](http://www.macmillandictionary.com/thesaurus/british/cranky%22%20%5Cl%20%22cranky_6%22%20%5Co%20%22cranky)

[likely](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=likely) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [stop](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=stop) [working](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=working) [at](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=at) [any](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=any) [time](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=time)

### [fail-safe](http://www.macmillandictionary.com/thesaurus/british/fail-safe%22%20%5Cl%20%22fail-safe_3%22%20%5Co%20%22fail-safe)

[designed](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=designed) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [make](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=make) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [machine](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=machine) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [piece](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=piece) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [stop](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=stop) [working](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=working) [if](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=if) [part](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=part) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [it](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=it) [stops](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=stops) [operating](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=operating) [normally](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=normally)

### [high-performance](http://www.macmillandictionary.com/thesaurus/british/high-performance%22%20%5Cl%20%22high-performance_3%22%20%5Co%20%22high-performance)

[designed](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=designed) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [be](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=be) [very](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=very) [fast](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=fast) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [powerful](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=powerful)

### [incompatible](http://www.macmillandictionary.com/thesaurus/british/incompatible%22%20%5Cl%20%22incompatible_3%22%20%5Co%20%22incompatible)

[ideas](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=ideas), [systems](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=systems), [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [machines](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=machines) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [are](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=are) [incompatible](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=incompatible) [are](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=are) [not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [able](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=able) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [work](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=work) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [exist](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=exist) [together](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=together) [because](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=because) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [basic](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=basic) [differences](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=differences)

### [inflatable](http://www.macmillandictionary.com/thesaurus/british/inflatable%22%20%5Cl%20%22inflatable_3%22%20%5Co%20%22inflatable)

[an](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=an) [inflatable](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=inflatable) [object](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=object) [must](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=must) [be](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=be) [filled](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=filled) [with](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=with) [air](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=air) [before](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=before) [you](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=you) [can](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=can) [use](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=use) [it](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=it)

### [labour-saving](http://www.macmillandictionary.com/thesaurus/british/labour-saving%22%20%5Cl%20%22labour-saving_3%22%20%5Co%20%22labour-saving)

[labour-saving](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=labour-saving) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [do](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=do) [jobs](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=jobs) [in](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=in) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [quick](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=quick) [and](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=and) [effective](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=effective) [way](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=way) [so](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=so) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [you](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=you) needn´t [spend](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=spend) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [lot](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=lot) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [time](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=time) [doing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=doing) [them](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=them) [yourself](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=yourself)

### [low](http://www.macmillandictionary.com/thesaurus/british/low%22%20%5Cl%20%22low_23%22%20%5Co%20%22low)

[used](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=used) [about](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=about) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [is](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=is) [not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [producing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=producing) [much](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=much) [energy](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=energy), [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [has](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=has) [not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [got](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=got) [much](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=much) [energy](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=energy) [left](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=left)

**[portable](http://www.macmillandictionary.com/thesaurus/british/portable_11%22%20%5Cl%20%22portable_15%22%20%5Co%20%22portable)**

[something](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=something) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [is](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=is) [portable](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=portable), [for](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=for) [example](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=example) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [small](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=small) [computer](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=computer), [television](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=television), [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [other](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=other) [small](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=small) [piece](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=piece) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [electrical](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=electrical) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment)

### [smart](http://www.macmillandictionary.com/thesaurus/british/smart%22%20%5Cl%20%22smart_24%22%20%5Co%20%22smart)

[smart](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=smart) [machines](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=machines), [especially](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=especially) [weapons](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=weapons), [use](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=use) [computer](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=computer) [technology](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=technology) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [make](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=make) [them](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=them) [effective](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=effective)

### [spring-loaded](http://www.macmillandictionary.com/thesaurus/british/spring-loaded%22%20%5Cl%20%22spring-loaded_3%22%20%5Co%20%22spring-loaded)

[operated](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=operated) [by](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=by) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [spring](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=spring) [inside](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=inside)

### [submersible](http://www.macmillandictionary.com/thesaurus/british/submersible%22%20%5Cl%20%22submersible_3%22%20%5Co%20%22submersible)

[a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [submersible](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=submersible) [machine](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=machine) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [vehicle](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=vehicle) [can](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=can) [work](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=work) [under](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=under) [water](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=water)

### [two-way](http://www.macmillandictionary.com/thesaurus/british/two-way%22%20%5Cl%20%22two-way_3%22%20%5Co%20%22two-way)

[able](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=able) [both](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=both) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [send](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=send) [and](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=and) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [receive](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=receive) [messages](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=messages)

### [unfriendly](http://www.macmillandictionary.com/thesaurus/british/unfriendly%22%20%5Cl%20%22unfriendly_7%22%20%5Co%20%22unfriendly)

[not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [easy](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=easy) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [use](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=use) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [operate](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=operate)

### [unmanned](http://www.macmillandictionary.com/thesaurus/british/unmanned%22%20%5Cl%20%22unmanned_3%22%20%5Co%20%22unmanned)

[used](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=used) [for](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=for) [describing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=describing) [a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [building](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=building) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [machine](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=machine) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [does](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=does) [not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [have](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=have) [any](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=any) [staff](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=staff) [there](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=there) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [manage](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=manage) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [operate](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=operate) [it](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=it). [Some](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=some) [people](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=people) [avoid](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=avoid) [using](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=using) [this](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=this) [word](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=word) [because](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=because) [they](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=they) [consider](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=consider) [it](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=it) [offensive](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=offensive) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [women](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=women), [and](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=and) [use](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=use) [unstaffed](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=unstaffed) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [uncrewed](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=uncrewed) [instead](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=instead)

### [unsophisticated](http://www.macmillandictionary.com/thesaurus/british/unsophisticated%22%20%5Cl%20%22unsophisticated_5%22%20%5Co%20%22unsophisticated)

[used](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=used) [for](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=for) [describing](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=describing) [simple](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=simple) [tools](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=tools) [and](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=and) [pieces](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=pieces) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [that](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=that) [are](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=are) [not](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=not) [advanced](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=advanced)

### [user-friendly](http://www.macmillandictionary.com/thesaurus/british/user-friendly%22%20%5Cl%20%22user-friendly_3%22%20%5Co%20%22user-friendly)

[a](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=a) [user-friendly](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=user-friendly) [system](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=system) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [piece](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=piece) [of](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=of) [equipment](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=equipment) [is](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=is) [easy](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=easy) [to](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=to) [use](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=use) [or](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=or) [understand](http://www.macmillandictionary.com/search-thesaurus/british/direct/?q=understand)

1. **Designing a robot**

You are the representatives of a team of inventors who devised a new type of robot. In groups, prepare a short presentation describing your prototype.

Decide on the following:

* Name of the robot
* Form and size
* Material
* Use
* Operating instructions
* Estimated production cost
* Market prospects – what is new about your prototype

Be prepared to answer questions. Then listen to the other investors´ presentations. You may ask for more details about the other robots. In the end, as a whole class, select one prototype for future production.

1. **Is artificial intelligence dangerous?**

<http://curiosity.discovery.com/question/artificial-intelligence-dangerous>

Listen to experts discussing A.I. and summarise their viewpoints.

1. **Language focus**
2. **Expressing wishes or regrets**

**Imagine you are no longer happy with the invention of your robot. Look at the way you might express your regrets and wishes.**

|  |
| --- |
| 1. I wish I had never created such a robot.
2. If only I had realised then what a tremendous effect it would have.
3. I wish people stopped using it at once.
4. I wished they wouldn´t manufacture it any more.
 |

**Which of the sentences above express:**

* regrets about the past, for something that has already taken place
* a wish for the present
* a wish for the future

**Now imagine the situations described below. For each situation make one or more sentences beginning with** *I wish…* **or** *If only…*

1. You watched a thriller in which alien robots were invading the Earth and you´ve had nightmares ever since.
2. The managing director of your company intends to replace 70% of the labourers in the assembly line with a robotic system.
3. You have just failed in a difficult exam and you realise you didn´t work hard enough for it.

**Share with your partner three regrets about your past, referring to the things you did or did not do.**

1. **Back to the future
Think of how your life has already changed thanks to technology. Complete the columns with as many examples as you can.**

|  |  |  |
| --- | --- | --- |
| Past | Present | Future |

E.g. Wrote letters send e-mails ?

1. **Phrasal verbs**

**1. Complete the sentences with suitable particles:**

1. When I tried to switch \_\_\_\_\_ my computer, nothing happened.
2. Would the last person to leave the room please turn \_\_\_\_\_ the lights.
3. The computer isn´t working because you haven´t plugged it \_\_\_\_\_\_\_!
4. Can you turn \_\_\_\_\_\_\_ the TV – I can hardly hear what the actors are saying.
5. My mobile isn´t working – I need to charge it \_\_\_\_\_\_\_\_.
6. The alarm went \_\_\_\_ in the middle of the night, waking all the neighbours.
7. The pilot´s radio cut \_\_\_\_\_\_\_ as the plane was flying over the Himalayas.
8. We´ve just bought a breadmaking machine. All you do is measure \_\_\_\_\_ all the ingredients, put them in the machine and switch it \_\_\_\_\_.
9. The mechanic pumped \_\_\_\_\_\_ the tyres while he was servicing the car.

(adapted from McCarthy,M.; O´Dell, F. *English Phrasal Verbs in Use.* Cambridge University Press, 2004.)

**2. For each sentence, choose the best word or phrase to complete the gap from the choices below.**

Začátek formuláře

1. Recently, scientists have \_\_\_\_\_\_\_\_\_\_\_ that the meteorite which wiped out the dinosaurs might have also resulted in an ice age.
	1. **carried out B) pointed out C) made up**
2. By a process of elimination, the computer technician was able to \_\_\_\_\_\_\_\_\_\_ the faulty component in my home PC and soon it was working again.

 **A) break down B) carry out C) home in on**

1. Researchers at the University of Bedminster have been \_\_\_\_\_\_\_\_\_\_\_\_ a study to determine the most efficient way to peel a banana.
	1. **pointing out B) carrying out C) figuring out**
2. For decades, great minds have tried to \_\_\_\_\_\_\_\_\_\_ what shape the universe is and finally, it seems, someone has come up with an answer.
	1. **point out B) figure out C) carry out**
3. Today a network of virus-infected computers which for months has been \_\_\_\_\_\_\_\_\_\_\_\_ billions of Spam e-mails has finally been shut down.
	1. **carrying out B) giving out C) cranking out**
4. After this the untreated sewage is placed in fermenting tanks where special bacteria are used to \_\_\_\_\_\_\_\_\_\_ any organic matter and solid material.
	1. **break down B) do away with C) carry out**
5. With the recent introduction of electric cars, it is hoped that petrol-driven vehicles can be \_\_\_\_\_\_\_\_\_\_ by the end of the next decade.
	1. **carried out B) given out C) phased out**

(exercise adapted from www.ihbristol.com/free-english-exercises/test/esol-smc-phrasal-verbs-science)Konec formuláře