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Level 6 – 24th March 2025

World's largest digital camera installed in Chile

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<https://breakingnewsenglish.com/2503/250324-digital-camera.html>

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Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has become operational in an observatory in Chile. The Large Synoptic Survey Telescope camera was funded by U.S. government agencies. The enormous device was installed in the Vera C. Rubin Observatory in the South American nation.

Astronomers will now commence a period of testing. They will use the camera to observe the southern hemisphere skies over the next decade.

The Department of Energy's Office of Science commented on how momentous the completion of the telescope was. It called the camera "a triumph of science and engineering". It added: "We look forward to seeing the unprecedented images this camera will produce."

The camera is the size of a small car and weighs 2,721 kg. It has a massive 3-billion-pixel sensor. In comparison, today's top-of-the-range smartphone cameras have 200 million pixels. Astronomers will repeatedly scan the sky to take time-lapse images of space. Lead researcher Aaron Roodman said: "We like to say that we're going to make a colour movie of the entire Southern Hemisphere sky." In particular, he hopes to capture images that will shed light on how galaxies formed. Roodman's team will also investigate dark matter – the invisible substance that makes up a significant portion of the universe. In addition, the camera will map our Milky Way galaxy in greater detail than ever before.

Sources: <https://www.space.com/space-exploration/tech/worlds-largest-digital-camera-to-help-new-vera-rubin-observatory-make-a-time-lapse-record-of-the-universe-photos>
<https://www.msn.com/en-au/news/other/world-s-biggest-digital-camera-installed-in-chile-to-explore-universe/ar-AA1B5tWV>
<https://interestingengineering.com/photo-story/rubin-observatorys-3200-megapixel-lsst-camera>

WARM-UPS

1. DIGITAL CAMERAS: Students walk around the class and talk to other students about digital cameras. Change partners often and share your findings.

2. CHAT: In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

digital camera / observatory / device / nation / astronomer / testing / telescope / small car / pixel / sensor / space / galaxies / dark matter / invisible / map / detail

Have a chat about the topics you liked. Change topics and partners frequently.

3. SPACE: Students A **strongly** believe space is important; Students B **strongly** believe it isn't. Change partners again and talk about your conversations.

4. SCIENCE: What do you know about these sciences? How important are they? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	Their Importance
Astronomy		
Physics		
Biology		
Chemistry		
Geology		
Meteorology		

5. CAMERA: Spend one minute writing down all of the different words you associate with the word "camera". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

6. PHOTOS: Rank these with your partner. Put the best things to take photos of at the top. Change partners often and share your rankings.

- Stars
- Yourself
- Food
- Flowers
- The countryside
- Sights
- Cats and dogs
- Friends

VOCABULARY MATCHING

Paragraph 1

- | | |
|------------------|-------------------------------------------------------------------|
| 1. observatory | a. Given money to help pay for something. |
| 2. funded | b. One half of the Earth or another round object. |
| 3. commence | c. Never happened before. |
| 4. hemisphere | d. To start something. |
| 5. momentous | e. A great win or success. |
| 6. triumph | f. A special building where people look at the stars and planets. |
| 7. unprecedented | g. Very important. |

Paragraph 2

- | | |
|---------------------|-------------------------------------------------------------------------|
| 8. sensor | h. The best and most expensive of its kind. |
| 9. top-of-the-range | i. To explain or help people understand something. |
| 10. shed light on | j. To make a picture or plan of a place or area. |
| 11. dark matter | k. A type of material or thing, like water or metal |
| 12. substance | l. A special kind of substance in space that people cannot see. |
| 13. portion | m. A small device that can detect things like heat, light, or movement. |
| 14. map (verb) | n. A part of something. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

1. The digital camera was privately funded. **T / F**
2. The camera is now fully functional after testing was concluded. **T / F**
3. The camera will be used to look at skies in the southern hemisphere. **T / F**
4. The U.S. government hailed the camera as a triumph of engineering. **T / F**
5. The camera weighs more than a bus. **T / F**
6. The new digital camera has 200 million pixels. **T / F**
7. Astronomers will use the camera to look at the origins of galaxies. **T / F**
8. The camera will be used to study light matter. **T / F**

2. SYNONYM MATCH: (The words in **bold** are from the news article.)

- | | |
|----------------------------|-------------------|
| 1. operational | a. best |
| 2. funded | b. gadget |
| 3. device | c. enormous |
| 4. commence | d. important |
| 5. momentous | e. chart |
| 6. massive | f. up and running |
| 7. top-of-the-range | g. percentage |
| 8. entire | h. financed |
| 9. portion | i. whole |
| 10. map | j. start |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|----------------------------------------------|-----------------------------|
| 1. funded by | a. scan the sky |
| 2. Astronomers will now commence a period | b. unprecedented images |
| 3. observe the southern | c. on how galaxies formed |
| 4. It called the camera a triumph of science | d. U.S. government agencies |
| 5. look forward to seeing the | e. hemisphere skies |
| 6. It has a massive 3-billion- | f. of testing |
| 7. Astronomers will repeatedly | g. matter |
| 8. shed light | h. and engineering |
| 9. investigate dark | i. our Milky Way galaxy |
| 10. the camera will map | j. pixel sensor |

GAP FILL

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has become (1) _____ in an observatory in Chile. The Large Synoptic Survey Telescope camera was (2) _____ by U.S. government agencies. The enormous device was (3) _____ in the Vera C. Rubin Observatory in the South American nation. Astronomers will now (4) _____ a period of testing. They will use the camera to observe the southern hemisphere skies over the next (5) _____. The Department of Energy's Office of Science commented on how (6) _____ the completion of the telescope was. It called the camera "a (7) _____ of science and engineering". It added: "We look forward to seeing the (8) _____ images this camera will produce."

decade
triumph
operational
commence
funded
unprecedented
momentous
installed

The camera is the size of a small car and weighs 2,721 kg. It has a (9) _____ 3-billion-pixel sensor. In comparison, today's top-of-the-range smartphone cameras have 200 million (10) _____. Astronomers will repeatedly (11) _____ the sky to take time-lapse images of space. Lead researcher Aaron Roodman said: "We like to say that we're going to make a colour movie of the (12) _____ Southern Hemisphere sky." In particular, he hopes to capture images that will (13) _____ light on how galaxies formed. Roodman's team will also investigate dark (14) _____ - the invisible substance that makes up a significant (15) _____ of the universe. In addition, the camera will map our Milky Way galaxy in greater (16) _____ than ever before.

scan
matter
massive
detail
entire
portion
pixels
shed

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

- 1) The world's largest ever digital camera has become operational _____
 - a. in an observatory
 - b. in an auditorium
 - c. in an abatorioium
 - d. in an abattoir
- 2) The Large Synoptic Survey Telescope camera was funded by _____
 - a. U.S. government agent see
 - b. U.S. government age and seas
 - c. U.S. government agency
 - d. U.S. government agencies
- 3) Astronomers will now commence a _____
 - a. period off testing
 - b. period of testing
 - c. period oft testing
 - d. period oaf testing
- 4) observe the southern hemisphere skies over _____
 - a. the next decadence
 - b. the next decal
 - c. the next decade
 - d. the next deck aid
- 5) seeing the unprecedented images this _____
 - a. camera will produce
 - b. camera will produced
 - c. camera will produces
 - d. camera will producer
- 6) It has a massive 3-_____
 - a. billion-pixel sense or
 - b. billion-pixel cents or
 - c. billion-pixel sensor
 - d. billion-pixel sensory
- 7) In comparison, today's top-of-_____
 - a. the-derange smartphone
 - b. the-grange smartphone
 - c. the-range smartphone
 - d. the-arrange smartphone
- 8) Astronomers will repeatedly scan the sky to take _____
 - a. time-elopes images
 - b. time-laps images
 - c. time-lapse images
 - d. time-clasp images
- 9) In particular, he hopes to capture images that will shed light on _____
 - a. how galaxy formed
 - b. how glaciers formed
 - c. how galaxies formed
 - d. how goal axes formed
- 10) Roodman's team will also _____
 - a. investigate stark matter
 - b. investigate dark master
 - c. investigate dark matter
 - d. investigates dark matter

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has (1) _____ an observatory in Chile. The Large Synoptic Survey Telescope camera was funded by U.S. government agencies. The enormous (2) _____ in the Vera C. Rubin Observatory in the South American nation. Astronomers will now (3) _____ of testing. They will use the camera to observe the southern hemisphere skies over (4) _____. The Department of Energy's Office of Science commented on how momentous the completion of the telescope was. It called the camera "a (5) _____ and engineering". It added: "We look forward to seeing (6) _____ this camera will produce."

The camera is the size of a small (7) _____ 2,721 kg. It has a massive 3-billion-pixel sensor. In comparison, today's (8) _____ smartphone cameras have 200 million pixels. Astronomers will repeatedly scan the sky to take (9) _____ of space. Lead researcher Aaron Roodman said: "We like to say that we're going to make a colour movie of the entire Southern Hemisphere sky." In particular, he hopes to capture images that will (10) _____ how galaxies formed. Roodman's team will also investigate dark matter – (11) _____ that makes up a significant portion of the universe. In addition, the camera will map our Milky Way (12) _____ detail than ever before.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

1. Who was the digital camera funded by?
2. What will stargazers now start?
3. For how long will astronomers use the camera to look into space?
4. What did the U.S. government say the telescope was a triumph of?
5. What does the government department look forward to seeing?
6. How big is the camera?
7. How many pixels does the camera's sensor have?
8. What kind of images will the camera take?
9. What does the researcher hope the camera will shed light on?
10. What will the camera help to map?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

- 1) Who was the digital camera funded by?
 - a) a Japanese camera maker
 - b) U.S. government agencies
 - c) tech billionaires
 - d) It was crowd-funded.
- 2) What will stargazers now start?
 - a) looking for new universes
 - b) the next project
 - c) new jobs
 - d) a period of testing
- 3) For how long will astronomers use the camera to look into space?
 - a) 5 years
 - b) 7 years
 - c) 10 years
 - d) 20 years
- 4) What did the U.S. government say the telescope was a triumph of?
 - a) science and engineering
 - b) mind over matter
 - c) astrology and astronomy
 - d) science fiction
- 5) What does the government department look forward to seeing?
 - a) stars
 - b) unprecedented images
 - c) new things
 - d) a bright future
- 6) How big is the camera?
 - a) the size of a small car
 - b) pretty big
 - c) the size of a house
 - d) the size of a bus
- 7) How many pixels does the camera's sensor have?
 - a) one billion
 - b) two billion
 - c) three billion
 - d) four billion
- 8) What kind of images will the camera take?
 - a) time-lapse images
 - b) high-speed photos
 - c) dark ones
 - d) stars and comets
- 9) What does the researcher hope the camera will shed light on?
 - a) black holes
 - b) the dark
 - c) asteroids
 - d) how galaxies formed
- 10) What will the camera help to map?
 - a) war zones
 - b) deserts and jungles
 - c) our Milky Way
 - d) GPS

ROLE PLAY

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

Role A – Food

You think food is the best thing to take photos of. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least photogenic of these (and why): yourself, cats and dogs or friends.

Role B – Yourself

You think yourself is the best thing to take photos of. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least photogenic of these (and why): food, cats and dogs or friends.

Role C – Cats and Dogs

You think cats and dogs is the best thing to take photos of. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least photogenic of these (and why): yourself, food or friends.

Role D – Friends

You think friends is the best thing to take photos of. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least photogenic of these (and why): yourself, cats and dogs or food.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

1. WORD SEARCH: Look online / in your dictionary to find collocates, information on, synonyms for... the words 'digital' and 'camera'.

digital	camera

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none">• ever• funded• device• period• completion• triumph	<ul style="list-style-type: none">• car• three• lapse• shed• significant• detail
--------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------

DIGITAL CAMERAS SURVEY

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

Write five GOOD questions about digital cameras in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

DIGITAL CAMERA DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'digital'?
3. What do you think of digital cameras?
4. What do you think of the huge digital camera in the article?
5. How important is it to explore space?
6. What do you want to know about our universe?
7. Are skies different in the southern and northern hemispheres?
8. What do you think is a triumph of science?
9. What do you think is a triumph of engineering?
10. What images do you look forward to seeing?

World's largest digital camera installed in Chile – 24th March 2025
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DIGITAL CAMERA DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'camera'?
13. What do you think about what you read?
14. Is a digital or film camera best?
15. How many pixels does your camera have?
16. What do you like taking photos of?
17. How important is it to have a good camera?
18. What do you know about dark matter?
19. What do you know about the Milky Way?
20. What questions would you like to ask the scientists?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has become (1) _____ in an observatory in Chile. The Large Synoptic Survey Telescope camera was (2) _____ by U.S. government agencies. The enormous device was installed in the Vera C. Rubin Observatory in the South American nation. Astronomers will now (3) _____ a period of testing. They will use the camera to observe the southern hemisphere skies over (4) _____ next decade. The Department of Energy's Office of Science commented (5) _____ how momentous the completion of the telescope was. It called the camera "a triumph of science and engineering". It added: "We look forward to seeing the (6) _____ images this camera will produce."

The camera is the size of a small car and weighs 2,721 kg. It has a massive 3-billion-pixel (7) _____. In comparison, today's top-of-the-range smartphone cameras have 200 million pixels. Astronomers will repeatedly (8) _____ the sky to take time-lapse images of space. Lead researcher Aaron Roodman said: "We like to say that we're going to make a colour movie of the (9) _____ Southern Hemisphere sky." In particular, he hopes to capture images that will (10) _____ light on how galaxies formed. Roodman's team will also investigate dark (11) _____ - the invisible substance that makes up a significant portion of the universe. In addition, the camera will (12) _____ our Milky Way galaxy in greater detail than ever before.

Put the correct words from the table below in the above article.

- | | | | | |
|-----|-----------------|-------------------|--------------|----------------|
| 1. | (a) operational | (b) operates | (c) operated | (d) operating |
| 2. | (a) fanned | (b) floundered | (c) funded | (d) fended |
| 3. | (a) commerce | (b) comment | (c) commence | (d) commit |
| 4. | (a) a | (b) whole | (c) all | (d) the |
| 5. | (a) on | (b) at | (c) of | (d) by |
| 6. | (a) dented | (b) unprecedented | (c) indented | (d) indentured |
| 7. | (a) sensei | (b) sensory | (c) sensing | (d) sensor |
| 8. | (a) scam | (b) scan | (c) skim | (d) scum |
| 9. | (a) all | (b) every | (c) entire | (d) each |
| 10. | (a) shelter | (b) cave | (c) cabin | (d) shed |
| 11. | (a) mute | (b) mutter | (c) muster | (d) matter |
| 12. | (a) atlas | (b) map | (c) GPS | (d) directions |

SPELLING

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

Paragraph 1

1. in an votrayrobes in Chile
2. The oursemno device was installed
3. mrsoatnerso will now commence
4. the southern spheerihme
5. a pmuirth of science
6. seeing the cedentupernd images

Paragraph 2

7. a massive 3-billion- sliexp sensor
8. shed light on how xelgaasi formed
9. gtevnicasiet dark matter
10. blisnievi
11. ctubseasn
12. significant tnorpoi of the universe

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

Number these lines in the correct order.

- () addition, the camera will map our Milky Way galaxy in greater detail than ever before.
- () commence a period of testing. They will use the camera to observe the southern
- () device was installed in the Vera C. Rubin Observatory in the South American nation. Astronomers will now
- () engineering". It added: "We look forward to seeing the unprecedented images this camera will produce."
- () hemisphere skies over the next decade. The Department of Energy's Office of Science commented
- () matter – the invisible substance that makes up a significant portion of the universe. In
- () on how momentous the completion of the telescope was. It called the camera "a triumph of science and
- () scan the sky to take time-lapse images of space. Lead researcher Aaron Roodman said: "We like to say
- () sensor. In comparison, today's top-of-the-range smartphone cameras have 200 million pixels. Astronomers will repeatedly
- () Survey Telescope camera was funded by U.S. government agencies. The enormous
- () that we're going to make a colour movie of the entire Southern Hemisphere sky." In particular, he hopes
- () The camera is the size of a small car and weighs 2,721 kg. It has a massive 3-billion-pixel
- (**1**) The world's largest ever digital camera has become operational in an observatory in Chile. The Large Synoptic
- () to capture images that will shed light on how galaxies formed. Roodman's team will also investigate dark

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

1. The camera operational has become world's largest digital .
2. Astronomers commence now will a testing period of .
3. Use observe the to camera hemisphere southern the .
4. It triumph called science a of the camera .
5. We forward to images unprecedented seeing the look .
6. The size a of is car the camera .
7. Repeatedly time-lapse sky the scan images to take .
8. A of Southern the colour movie entire Hemisphere .
9. It galaxies how on shed light will formed .
10. Invisible portion that make up a significant substances .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has become *operated / operational* in an observatory in Chile. The Large Synoptic Survey Telescope camera was *funded / fended* by U.S. government agencies. The enormous device was *installation / installed* in the Vera C. Rubin Observatory in the South American nation. Astronomers will now *commence / commerce* a period of testing. They will use the camera to observe the southern hemisphere skies over the *next / past* decade. The Department of Energy's Office of Science commented on *what / how* momentous the completion of the telescope was. It called the camera "a triumph *off / of* science and *engineers / engineering*". It added: "We look forward to *seeing / seen* the unprecedented images this camera will *product / produce*."

The camera is the size of a small car and *weights / weighs* 2,721 kg. It has a massive 3-billion-pixel sensor. In comparison, today's top-of-the-*range / ranch* smartphone cameras have 200 million pixels. Astronomers will repeatedly scan *a / the* sky to take time-*elapse / lapse* images of space. Lead researcher Aaron Roodman said: "We *like / liking* to say that we're going to make a colour movie of the *every / entire* Southern Hemisphere sky." In *particular / peculiar*, he hopes to capture images that will shed *dark / light* on how galaxies formed. Roodman's team will also investigate *dark / light* matter – the invisible substance that makes up a significant portion of the universe. In addition, the camera will *map / diagram* our Milky Way galaxy in greater detail than ever before.

Talk about the connection between each pair of words in italics, and why the correct word is correct. Look up the definition of new words.

INSERT THE VOWELS (a, e, i, o, u)

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

Th_ w_rld's l_rg_st _v_r d_g_t_l c_m_r_ h_s b_c_m_ _p_r_t_n_l _n _n _bs_rv_t_ry _n Ch_l_. Th_ L_rg_ Syn_pt_c S_rv_y T_l_sc_p_ c_m_r_ w_s f_nd_d by _S. g_v_rnm_nt _g_nc_s. Th_ _n_rm_s d_v_c_ w_s _nst_ll_d _n th_ V_r_ C. R_b_n _bs_rv_t_ry _n th_ S__th _m_r_c_n n_t_n. _str_n_m_rs w_ll n_w c_mm_nc_ _ p_r_d _f t_st_ng. Th_y w_ll _s_ th_ c_m_r_ t_ _bs_rv_ th_ s__th_rn h_m_sph_r_ sk__s _v_r th_ n_xt d_c_d_. Th_ D_p_rtm_nt _f _n_rgy's _ff_c_ _f Sc__nc_ c_mm_nt_d _n h_w m_m_nt_s th_ c_mpl_t__n _f th_ t_l_sc_p_ w_s. _t c_ll_d th_ c_m_r_ "_ tr__mph _f sc__nc_ _nd _ng_n__r_ng". _t _dd_d: "W_ l__k f_rw_rd t_ s__ng th_ _npr_c_d_nt_d _m_g_s th_s c_m_r_ w_ll pr_d_c_."

Th_ c_m_r_ _s th_ s_z_ _f _ sm_ll c_r _nd w__ghs 2,721 kg. _t h_s _ m_ss_v_ 3-b_ll__n-p_x_l s_ns_r. _n c_mpr_s_n, t_d_y's t_p-f-th_-r_ng_ sm_rtp_h_n_ c_m_r_s h_v_ 200 m_ll__n p_x_ls. _str_n_m_rs w_ll r_p__t_dly sc_n th_ sky t_ t_k_ t_m_-l_p_s_ _m_g_s _f sp_c_. L__d r_s__rch_r __r_n R__dm_n s__d: "W_ l__k t_ s_y th_t w_'r_ g__ng t_ m_k_ _ c_l__r m_v__ _f th_ _nt_r_ S__th_rn H_m_sph_r_ sky." _n p_rt_c_l_r, h_ h_p_s t_ c_pt_r_ _m_g_s th_t w_ll sh_d l_gh_t _n h_w g_l_x__s f_rm_d. R__dm_n's t__m w_ll _ls_ _nv_st_g_t_ d_rk m_tt_r - th_ _nv_s_bl_ s_bst_nc_ th_t m_k_s _p _ s_gn_f_c_nt p_rt__n _f th_ _n_v_rs_. _n _dd_t_n, th_ c_m_r_ w_ll m_p __r M_lky W_y g_l_xy _n gr__t_r d_t__l th_n _v_r b_f_r_.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

the worlds largest ever digital camera has become operational in an observatory in chile the large synoptic survey telescope camera was funded by us government agencies the enormous device was installed in the vera c rubin observatory in the south american nation astronomers will now commence a period of testing they will use the camera to observe the southern hemisphere skies over the next decade the department of energys office of science commented on how momentous the completion of the telescope was it called the camera a triumph of science and engineering it added we look forward to seeing the unprecedented images this camera will produce

the camera is the size of a small car and weighs 2721 kg it has a massive 3 billion pixel sensor in comparison todays top of the range smartphone cameras have 200 million pixels astronomers will repeatedly scan the sky to take time lapse images of space lead researcher aaron roodman said we like to say that were going to make a colour movie of the entire southern hemisphere sky in particular he hopes to capture images that will shed light on how galaxies formed roodmans team will also investigate dark matter the invisible substance that makes up a significant portion of the universe in addition the camera will map our milky way galaxy in greater detail than ever before

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2503/250324-digital-camera.html>

The world's largest ever digital camera has become operational in an observatory in Chile. The Large Synoptic Survey Telescope camera was funded by U.S. government agencies. The enormous device was installed in the Vera C. Rubin Observatory in the South American nation. Astronomers will now commence a period of testing. They will use the camera to observe the southern hemisphere skies over the next decade. The Department of Energy's Office of Science commented on how momentous the completion of the telescope was. It called the camera "a triumph of science and engineering". It added: "We look forward to seeing the unprecedented images this camera will produce." The camera is the size of a small car and weighs 2,721 kg. It has a massive 3-billion-pixel sensor. In comparison, today's stop-of-the-range smartphone cameras have 200 million pixels. Astronomers will repeatedly scan the sky to take time-lapse images of space. Lead researcher Aaron Roodman said: "We like to say that we're going to make a colour movie of the entire Southern Hemisphere sky." In particular, he hopes to capture images that will shed light on how galaxies formed. Roodman's team will also investigate dark matter – the invisible substance that makes up a significant portion of the universe. In addition, the camera will map our Milky Way galaxy in greater detail than ever before.

HOMework

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

3. DIGITAL CAMERAS: Make a poster about digital cameras. Show your work to your classmates in the next lesson. Did you all have similar things?

4. SPACE: Write a magazine article about governments spending more money to look at space. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on digital cameras. Ask him/her three questions about them. Give him/her three of your opinions on them. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1. f 2. a 3. d 4. b 5. g 6. e 7. c
8. m 9. h 10. i 11. l 12. k 13. n 14. j

TRUE / FALSE (p.5)

- 1 F 2 F 3 T 4 T 5 F 6 F 7 T 8 F

SYNONYM MATCH (p.5)

1. f	2. h	3. b	4. j	5. d
6. c	7. a	8. i	9. g	10. e

COMPREHENSION QUESTIONS (p.9)

1. U.S. government agencies
2. A period of testing
3. A decade
4. Science and engineering
5. Unprecedented images
6. The size of a small car
7. Three billion
8. Time-lapse images
9. How galaxies formed
10. Our Milky Way galaxy

WORDS IN THE RIGHT ORDER (p.19)

1. The world's largest digital camera has become operational.
2. Astronomers will now commence a period of testing.
3. Use the camera to observe the southern hemisphere.
4. It called the camera a triumph of science.
5. We look forward to seeing the unprecedented images.
6. The camera is the size of a car.
7. Repeatedly scan the sky to take time-lapse images.
8. A colour movie of the entire Southern Hemisphere.
9. It will shed light on how galaxies formed.
10. Invisible substances that make up a significant portion.

MULTIPLE CHOICE - QUIZ (p.10)

1. b 2. d 3. c 4. a 5. b 6. a 7. c 8. a 9. d 10. c

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)