Bill Nye - Skin

Answer the following questions while viewing the video.

1. The largest organ in the body is _________________.

2. List the 3 main jobs of the skin and give one detail about that job.

<table>
<thead>
<tr>
<th>Job</th>
<th>Detail about the job</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
</tr>
</tbody>
</table>

3. The outer layer of skin is called the _________________________________.

4. A professional athlete can sweat as much as ________________ a day.

5. Your skin weighs ________________ as much as your ________________.

6. The thinnest skin on your body is found ________________________________ and the thickest skin is on ________________________________.

7. Sweat cools you off when the water _________________________ and takes the ________________ with it.

8. A goosebump is ________________________________ and it's job is to ________________________________.

9. The pigment in skin that makes it different shades of brown is called ________________.

10. The 2 main functions of this skin pigment are ________________________________
and ________________________________.

11. People with lighter skin have ancestors that lived far from __________________________.

   People with darker skin have ancestors that lived near ____________________________.

12. An itch is nature’s way to get us to ______________ so we get rid of ________________.

13. What special product does the skin in your ears make? __________________________

14. The most sensitive parts of your body are ____________________ and ________________.

15. What part of your skin is unique and never changes? _____________________________

16. What is the function of the ridges on our fingers?

17. The back of your hand had ________ nerve endings, _______ hairs, & ______ oil glands.

18. It takes _______________ frowns to make one ________________.

19. Complete the steps that tell how a pimple is formed.
   
   a. __________________________ get down next to your hair.
   
   b. This causes an _____________________ in the _____________________ gland.
   
   c. ____________________ _______________ cells come to fight the infection.
   
   d. The result of this fight is a ____________________.

20. Use the Human Biology textbook pg. ______ to label the picture below.
Then color the diagram using colored pencils.
Bill Nye – Skin (Answer Key)

Answer the following questions while viewing the video.

3. The largest organ in the body is **skin**.

4. List the 3 main jobs of the skin and give one detail about that job.

<table>
<thead>
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<tr>
<td>Protect your skin</td>
<td>Protects from sun, rain, weather</td>
</tr>
<tr>
<td>Regulates body temperature</td>
<td>keeps us warm &amp; cool OR sweats cools us</td>
</tr>
<tr>
<td>Gives sense of touch</td>
<td>Uses thousands of sensory receptors</td>
</tr>
</tbody>
</table>

3. The outer layer of skin is called the **epidermis**.

4. A professional athlete can sweat as much as **4 liters** a day.

5. Your skin weighs **twice** as much as your **brain**.

6. The thinnest skin on your body is found **on the eyelids** and the thickest skin is on **bottom of your feet**.

7. Sweat cools you off when the water **evaporates** and takes the **heat** with it.

8. A goosebump is **when skin pulls tight** and it’s job is to **hold in heat**.

9. The pigment in skin that makes it different shades of brown is called **melanin**.

10. The 2 main functions of this skin pigment are **make vitamin D**.
and ___ keep most of the sunlight out ___.

11. People with lighter skin have ancestors that lived far from ___ the equator ___.

   People with darker skin have ancestors that lived near ___ the equator ___.

12. An itch is nature’s way to get us to ___ scratch ___ so we get rid of ___ dead skin cells ___.

13. What special product does the skin in your ears make? ___ Earwax ___

14. The most sensitive parts of your body are ___ fingers ___ and ___ lips ___

15. What part of your skin is unique and never changes? ___ Your fingerprints ___

16. What is the function of the ridges on our fingers?

   Help us hold on to things, provide traction

17. The back of your hand had ___ 9000 ___ nerve endings, ___ 30 ___ hairs, & ___ 4 ___ oil glands.

18. It takes ___ 2000 ___ frowns to make one ___ wrinkle ___.

19. Complete the steps that tell how a pimple is formed.

   a. ___ Bacteria ___ get down next to your hair.

   b. This causes an ___ infection ___ in the ___ sebaceous ___ gland.

   c. ___ White ___ blood ___ cells come to fight the infection.

   d. The result of this fight is a ___ pimple ___.

20. Use the Human Biology textbook pg. ___ to label the picture below.

   Then color the diagram using colored pencils.